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CLAYTON DIVISION PRODUCTS

A complete line of switchlock, rotary, slide, rocker, lever, and pushbutton switches







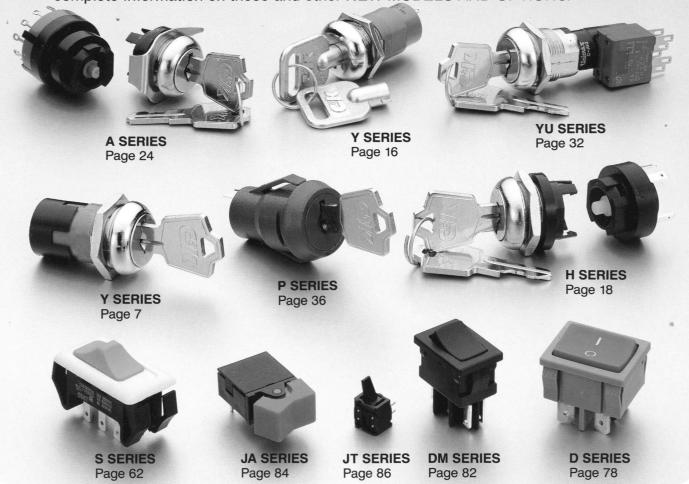




Catalog No. C8909

SEE WHAT'S NEW INSIDE . . .

Look what's new at C&K CLAYTON DIVISION! See the pages noted below for complete information on these and other NEW MODELS AND OPTIONS.



VALUE ADDED FEATURES

Actuators and frames may be custom marked with letters, numbers and a wide variety of symbols and legends. Special designs are no problem. Wire leads, harnesses, connectors, LED's, special designs and other value added features make installation and assembly easier and less costly. Consult factory with your needs.





INTRODUCTION

Welcome to the new C&K CLAYTON DIVISION SWITCH CATALOG! Many new models and options, plus a new, easier-to-use format make this our biggest and best catalog yet. Most switch series shown have complete order numbers for selected standard models, or create your own model from options provided. See HOW TO ORDER information following each series.

OTHER SWITCH CATALOGS AVAILABLE

C&K Components, Inc., Newton Division, manufactures a complete line of miniature and subminiature toggle, rocker, lever handle, pushbutton, slide, rotary, thumbwheel, DIP, membrane and solid state switches. See inside back cover of this catalog for more information and a free reply card to get a NEWTON DIVISION SWITCH PRODUCTS CATALOG, or call (617) 964-6400.

C&K/Unimax, Inc. manufactures a full line of snap-acting, metal cased and illuminated switches. See inside back cover of this catalog for more information and a free reply card to get C&K/UNIMAX SWITCH PRODUCT information, or call (203) 269-8701.

AGENCY LISTINGS

Most C&K switches are available with UL and CSA listing, when ordered with G (gold over silver) or Q (silver) contact material. Note that B (gold) contact material is not listed because UL and other agencies consider listing only those components suitable for power applications. B contact material is used in low power and 'dry circuit' applications only, i.e., where no arcing occurs during switching (0.4 VA max, @ 20 V AC or DC max.).

Some switches are UL listed automatically when ordered with the appropriate contact material (examples: Y-Series, C-Series, S-Series). Most UL listed models are also available with CSA listing. See appropriate switch sections for specific contact material and rating information and ordering instructions.

AVAILABLE LISTINGS

All series (except M, JT, & MP) with all options are listed when ordered with G or Q contact UL material. See 'CONTACT MATERIALS', this page.

Most Y, H, YU, R, F, V, S, L, C, D, DM, J, K, & A models are CSA listed when ordered with CSA G or Q contact material. See 'CONTACT MATERIALS', this page.

VDE Some YU, V, C and D series models are VDE listed. See the appropriate switch section for more information.

SEV File No.: 81.1162.01 **UL File No.:** E42363 CSA File No.: LR49546, Clayton, N.C. SEMKO File No.: 43-63118/1-6

VDE File No.: 8869-4401

At C&K, we are continuously upgrading our agency certifications, and new models and options are being added. If the listing you require does not appear, consult factory with your needs.

CONTACT MATERIALS

Y, H, A, P, R, F, S, L, JA and KM Series switches are available with all 3 of the following contact materials (all other switch series are available with one or two contact material choices. See each switch section for complete information):

- B DRY CIRCUIT RATED- 0.4 VA max. @ 20 V AC or DC max. Material: copper or brass, with gold plate over nickel plate.
- Q POWER RATED- Ratings from 350 mA to 15 AMPS @ 125 V AC available. See switch sections for applicable ratings and available agency listings. Material: copper or brass, silver plated.
- G POWER OR DRY CIRCUIT RATED- Equivalent to both B and Q contact materials. Advantageous where either dry circuit or power conditions are encountered. However, when the dry circuit rating is exceeded, the gold plating is removed from the contact interface and the switch cannot then be used in dry circuits. This option should be specified where UL or CSA listing is required on a switch used in a dry circuit application. See switch sections for applicable ratings and available agency listings. Material: copper or brass, with gold plate over nickel plate over silver plate.



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	H SERIES Power Switchlocks	18 thru 23
	A SERIES Switchlocks	24 thru 31
	YU SERIES Switchlocks with Snap-acting Switches	32 thru 35
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SECTIONI

ROTARY / SLIDE / ROCKER / LEVER / PUSHBUTTON SWITCHES



A SERIES Rotary Switches 43 thru 47



D SERIES Miniature Power Rocker Switches 78 thru 81



H SERIES Power ROTA-SLIDE® Rotary Switches 48 thru 49



DM SERIES Miniature DP Power Rocker Switches 82 thru 83



R SERIES ROTA-SLIDE® Rotary Switches 50 thru 53



JA SERIES Rocker Switches 84 thru 85



F SERIES Miniature ROTA-SLIDE® Rotary Switches 54 thru 57



JT SERIES Miniature Lever Handle



V SERIES Power & Line Voltage Select Slide Switches 58 thru 61



MP SERIES Mechanical Pushbutton Switches 87 thru 89



S SERIES Slide Switches 62 thru 67



KM SERIES Pushbutton Switches 90 thru 92



L SERIES Miniature Slide Switches 68 thru 73





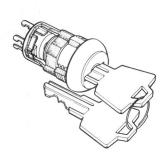
C SERIES Power Rocker Switches 74 thru 77

AND CATALOGS SEE REPLY CARD INSERT-INSIDE **BACK COVER**

SECTION I SWITCHLOCKS



4 and 5 Tumbler Switchlocks



SPECIFICATIONS

CONTACT RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10° ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

INDEXING: 45° or 90°-2-4 positions. Other functions avail., consult factory.

STATIC RESISTANCE: ANTI-STATIC MODELS exceed 20 KV DC static resistance @ sea level, lock body to terminals

MATERIALS

LOCK: Zinc alloy with stainless steel facing, std.; black and nickel plated finishes also avail. 4 and 5 tumbler mechanisms avail.

KEYS: Nickel plated brass, with code no.

SWITCH HOUSING & TOP PLATE: Glass filled polyester (UL 94V-0).

CONTACTS: Copper, silver plated (Q cont. mat'l.). TERMINALS: Copper, silver plated (Q cont. mat'l.). MOUNTING NUT: Zinc alloy or steel, nickel or bright zinc plated.

MOUNTING CLIP: Steel, nickel or bright zinc plated

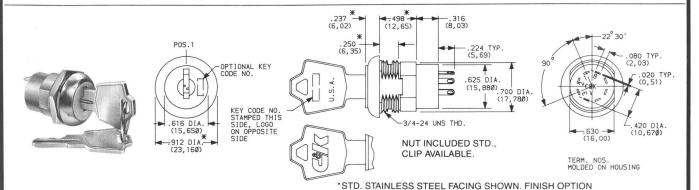
DRESS NUT: Brass, nickel plated.

NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult

INTRODUCTION

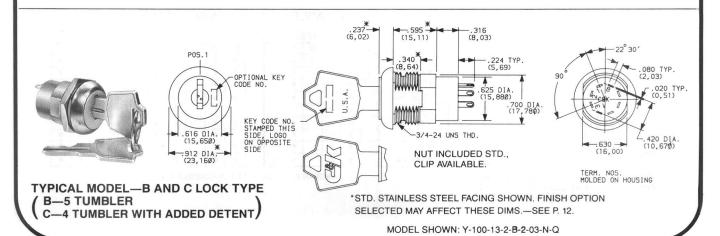
Available options for Y SERIES SWITCHLOCKS are shown on pages 7 thru 15. Typical models are shown below. Make selections from the following option sections: Models/Switching & Lock Function, Keying, Lock Types, Lock Finishes, Terminations, Mounting Styles/Lock Styles, Contact/Terminal Materials and (if desired) Epoxy Terminal Seal. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 15. UL/CSA listed with all options when ordered with G or Q contact material. 01 terminations, UL listed only.



TYPICAL MODEL — A LOCK TYPE (4 TUMBLER)

MODEL SHOWN: Y-100-13-2-A-2-03-N-Q

SELECTED MAY AFFECT THESE DIMS.—SEE P. 12.







4 and 5 Tumbler Switchlocks

Y	0000000	М	ODELS/SWIT	CHING AND (See legend, belo	LOCK FUNCT	ION	
LOCK CONFIGURATION	MODEL NO.			ONNECTED TERM e terminal locations			KEY PULL POSSIBLE
(AS VIEWED FROM KEY END)	NO. POLES	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	THESE POSITIONS
POS.1 POS.1 POS.1 POS.1 POS.1 POS.1 A5° INDEXING	Y100-13 SP Y200-13 DP	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7			POS.1
POS.1 2 45° INDEXING	Y100-1C SP Y200-1C DP	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7			POS.3
POS.1 2 45° INDEXING	Y100-1U SP Y200-1U DP	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7			POS.1 POS.3
POS.1 3	Y100-82 SP Y200-82 DP	8-1 8-1,4-5	1-2 1-2,5-6	7–8 7–8,3–4			POS.1
POS.1 3 O A5 INDEXING	Y100-AA SP Y200-AA DP	8-1 8-1,4-5	1-2 1-2,5-6	7-8 7-8,3-4			POS.1 POS.2 POS.3
POS.1 © 2 45° ©3 INDEXING	Y100-AB SP Y200-AB DP	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7	3-4 3-4,7-8		POS.1,POS.2, POS.3,POS.4
POS.1 90° INDEXING	Y101-13 SP Y201-13 DP	8-1 8-1,4-5	1-3 1-3,5-7			П	POS.1
POS.1 90° INDEXING	Y101-1C SP Y201-1C DP	8-1 8-1,4-5	1-3 1-3,5-7				POS.2
POS.1 90° INDEXING	Y101-1U SP Y201-1U DP	8-1 8-1,4-5	1-3 1-3,5-7				POS.1 POS.2
POS.1 ● 90° INDEXING	Y141-73 SP	7-1	1-3	6-7			POS.1
POS.1 90° INDEXING	Y141-7C SP	7-1	1-3	6-7			POS.2 POS.3
POS.1 90° INDEXING	Y141-7U SP	7-1	1-3	6-7			POS.1 POS.2 POS.3

LEGEND: • = Detent positions (45° or 90°).

• Key pull possible in these positions.

• or • = Stop positions.

SWITCH HOUSING

Terminal nos. molded on bottom of housing. Switch housing configuration varies with Model/Switching Function option selected. Housing shown for all models except Y190-XX.

AVAILABLE OPTION COMBINATIONS

		LC	DCK.	TYPE	ES			TERM	INA	TION:	S	٨	ITG.	/LOC	K ST	YLE	S
MODELS	Α	В	С	N	Р	R	01	02	03	07	WC	N	D	R	L	S	1
YX00-13	•	•		•	•				•		•		•				
YX00-1C	•	•		•			•				•						
YX00-1U		•	•			•	•	•	•		•	•	•	•	•	•	
YX00-82		•	•			•	•	•	•	3.4	•				3		
YX00-AX			•			•	•		•		•		•	•		•	1
YX01-13		•	•		•	•	•		•		•						
YX01-1C			•		•	•	•	•		100							
YX01-1U		•	•	1	•	•	•	•	•		•		•	•		•	
Y141-XX			•	1	•	•	•		•								-

• INDICATES AVAILABLE OPTION COMBINATION



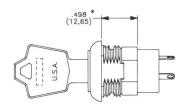




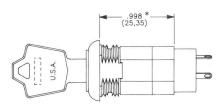
4 & 5 Tumbler **Momentary Switchlocks**

Y	<u>}</u>	ممصمد	Ю	MODELS/SWITCHING AND LOCK FUNCTION CONT. MOMENTARY MODELS (See legend, below) CONNECTED TERMINALS KEY PULL								
LOCK				11	CONNECTED TERMINALS (See Terminal locations, page 8.)							
CONFIGURA (AS VIEWED FROM	1.3.3	MODEL NO	NO. POLES	POS. 1 POS. 2 POS. 3		POS. 4 POS. 5		THESE POSITIONS				
POS.1	45° INDEXING MOMENTARY	Y108-12 Y208-12	SP DP	8-1 8-1,4-5	1-2 1-2,5-6				POS.1			
3 POS.1 2	45° INDEXING MOMENTARY	Y108-82 Y208-82	SP DP	8-1 8-1,4-5	1-2 1-2,5-6	7-8 7-8,3-4			POS.1			
3 POS.1	45° INDEXING MOMENTARY	Y108-AD Y208-AD	SP DP	8-1 8-1,4-5	1-2 1-2,5-6	7-8 7-8,3-4			POS.1 POS.3			
3 POS.1	45° INDEXING MOMENTARY	Y108-AH Y208-AH	SP DP	8-1 8-1,4-5	1-2 1-2,5-6	7-8 7-8,3-4			POS.1			
3 POS.1	45° INDEXING MOMENTARY	Y108-AJ Y208-AJ	SP DP	8-1 8-1,4-5	1-2 1-2,5-6	7-8 7-8,3-4			POS.3			

NON-ANTISTATIC (A LOCK TYPE)

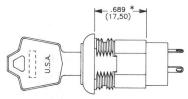




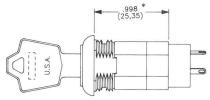


YX08-12 MOMENTARY MODELS





ANTISTATIC (N LOCK TYPE)



YX08-82 AND YX08-AX MOMENTARY MODELS

SWITCH HOUSING

Terminal nos. molded on bottom of housing. See p. 8. for bottom view of switch housing.

*DIMS. SHOWN FOR MODELS WITH STD. STAINLESS STEEL FACING, FINISH OPTION 2. FINISH OPTION SELECTED MAY AFFECT THESE DIMS.—SEE LOCK FINISHES SECTION, P. 12.

AVAILABLE OPTION COMBINATIONS

LEGEND: ▼ = Momentary position (45°).

• = Detent positions (45° or 90°).

• Key pull possible in these positions.

• or

Stop positions

		LOCK TYPES						TERMINATIONS				MTG./LOCK STYLES					
MODELS	Α	В	C	N	Р	R	01	02	03	07	WC	N	D	R	L	S	T
YX08-12			5				•				•		•	•		•	
YX08-82		9	3 7	•			•		•		•	•	•	•			
YX08-AX				•			•					•	•				

INDICATES AVAILABLE OPTION COMBINATION







4 & 5 Tumbler Switchlocks with Common Term.

MODELS/SWITCHING AND LOCK FUNCTION CONT. معمصمما MODELS WITH COMMON TERMINAL (See legend, below) CONNECTED TERMINALS **KEY PULL** LOCK (See terminal locations below.) **POSSIBLE** CONFIGURATION MODEL NO THESE (AS VIEWED FROM KEY END) POLES NO POS. 1 POS. 2 POS. 3 POS. 4 POS. 5 **POSITIONS** 90° INDEXING POS.1 Y190-73 SP C-4 C-2 POS.1 90° INDEXING POS.2 POS.3 Y190-7C SP C-4 C-1 C-2 POS.1 POS.1 POS.2 POS.3 90° INDEXING Y190-7U SP C-4 C-1 C-2 3 📵 **②** 2 POS.1 (POS.1 POS.3 90° Y190-01 C-1 C-2 C-3 C-4 SP 3 💿 POS.1 • 90° INDEXING POS.2 POS.4 2 40 Y190-0A C-3 3 . POS.1 (90° INDEXING POS.1,POS.2, POS.3,POS.4 4 📵 2 Y190-0S SP C-1 C-2 C-3 C-4 3 💿

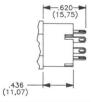
Detent positions (90°) LEGEND: • =

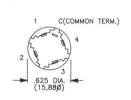
Key pull possible in these positions

or

Stop positions

C = Common Terminal





AVAILABLE OPTION COMBINATIONS

		LC	OCK	TYPE	ES			TERM	TANI	IONS	S	N	ITG.	LOC	K ST	YLE	S
MODELS	Α	В	С	N	Р	R	01	02	03	07	WC	N	D	R	L	S	
Y190-XX																	

• INDICATES AVAILABLE OPTION COMBINATION

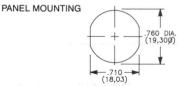
SWITCH HOUSING

Terminal nos. for reference only. Switch housing configuration varies with Model/Switching Function option selected. Housing shown for all Y190-XX models.

MOUNTING INFORMATION (ALL MODELS)

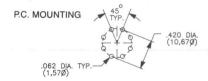


FOR MODELS WITH N, D, S OR T MOUNTING STYLES



FOR MODELS WITH R OR L MOUNTING STYLES

LOCK TYPE	MTG. STYLE	PANEL THICKNESS 1,4 LOCK FINISHES	PANEL THICKNESS 2,8,F LOCK FINISHES
A, N	NUT	.125 (3,18) max.	.105 (2,67) max.
4 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)
B, C, P, R	NUT	.215 (5,46) max.	.195 (4,95) max.
4 & 5 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)







4 and 5 Tumbler Switchlocks

KEYING

OPTION CODE NO.	NO. KEYS	KEY CODE STAMPED ON LOCK	ORDER KEYED ALIKE
2 (STD.)*	2	NO	YES
3	1	NO	YES
6	2	YES	YES
7	1	YES	YES

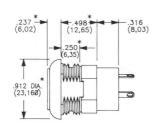
For more than one key code, master keying, replacement keys, or other special features, consult factory.

*Std. keying features include two nickel plated brass keys ringed together, no key code no. on face of lock, all switchlocks supplied with the same key code.

LOCK TYPES

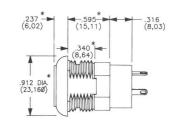
4 tumbler lock

NICKEL PLATED KEY5



В 5 tumbler lock (added security, more key codes avail., consult factory).

4 tumbler lock with added detent mechanism in lock (Std.). (Recommended for low level or dry circuit switching).



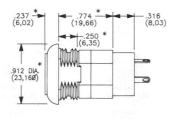
*Dims. shown for models with std. stainless steel facing, finish option 2. Finish option selected may affect these dims.—see LOCK FINISHES section, p.12. For complete lock and switch dimensions, see p.7.

SHORT ANTI-STATIC LOCK TYPES

U.S. Pat. No. 4,639,562

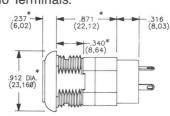
Exceeds 20 KV DC Static Resistance @ Sea Level, Lock Body To Terminals.

N 4 tumbler lock with ANTI-STATIC SWITCH.



5 tumbler lock with ANTI-STATIC SWITCH.

4 tumbler lock, with added detent mechanism in lock and ANTI-STATIC SWITCH. (Recommended for low level or dry circuit switching).



*Dims. shown for models with std. stainless steel facing, finish option 2. Finish option selected may affect these dims.—see LOCK FINISHES section, p.12. For complete lock and switch dimensions, see p.7.

AVAILABLE OPTION COMBINATIONS

LOCK		MTG	./LOC	K ST	/LES	
TYPES	N	D	R	L	S	Т
A	•	•	•	17.26	1844	M
В		•	•		•	
С	•	•	•	•	•	
N		•	•		10	
P		•	•			•
R		•	•	•	•	

INDICATES AVAILABLE OPTION COMBINATION





4 and 5 Tumbler Switchlocks

Stainless Facing (Std.)*

Polished Nickel

Gloss Black

High Gloss Nickel Plated Facing*



Nickel







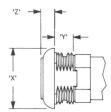


* Not available with L, R, S or T mounting styles.

LOCK FINISHES

LOCK DIMENSIONS

Lock dimensions can vary with finish option selected. See chart.



FINISH		DIMS.		
OPTIONS	'X'	'Y'	ʻZ'	
1,4	.880 .880	.270 .360	.220 .220	← A & N LOCK TYPES ← B, C, P & R LOCK TYPES
2,8,F	.912 .912	.250 .340	.237 .237	← A & N LOCK TYPES ← B, C, P & R LOCK TYPES

Note: Dims. shown for N, D Mounting Styles/ Lock Styles. Dims. for R, L, S, T Mounting Styles/Lock Styles do not vary with Finish Option selected, see p.13 and 14.

AVAILABLE OPTION COMBINATIONS

	M	rg./	LOC	KS	TYL	ES
FINISHES	N	D	R	L	S	Т
1					•	•
2						
4			•	•		•
8			•			•
F						

INDICATES AVAILABLE OPTION COMBINATION

صص

TERMINATIONS

01



01 terminations, UL listed only.

02†



†Not available on Y190-XX models.

02 **

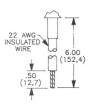
**Available only on Y190-XX models.

03

07



WC



Black wire std., other colors, gages, and lengths avail., consult factory.

AVAILABLE OPTION COMBINATIONS

	9 0	MODELS	
TERMINATIONS	YX0X-XX	Y141-XX	Y190-XX
01	•	•	B
02	0.0	•	•
03	0.00		
07	5 5	0.1	9 •
WC			

INDICATES AVAILABLE OPTION COMBINATION

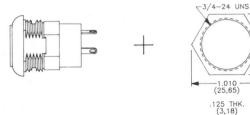




MOUNTING STYLES/LOCK STYLES

N WITH NUT*

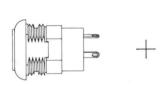


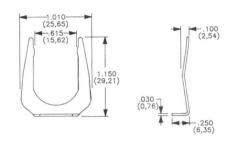


Nut P/N 17-505-07-00

D WITH CLIP*





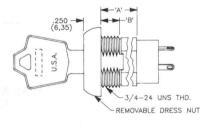


Clip P/N 17-505-03-00

R REMOVABLE DRESS NUT *



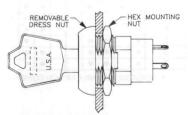






TYPICAL INSTALLATION

Install hex nut, leaving clearance for dress nut and panel. From rear-of-panel place switch through panel cutout. Install and tighten dress nut by hand then tighten hex nut. Always tighten assembly with back-of-panel hex nut to avoid damaging front of panel.



LOCK TYPE	DIMENSION				
LOCKTIFE	'A'	'B'			
Α	.518 (13,16)	.270 (6,86)			
B or C	.615 (15,62)	.360 (9,14)			

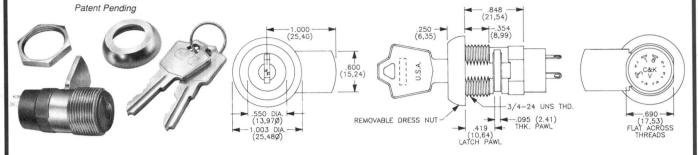
Panel mounting information, see p.10.

* See AVAILABLE OPTION COMBINATIONS, p.14.

(CONT'D.)

MOUNTING STYLES/LOCK STYLES (Cont'd)

L REMOVABLE DRESS NUT WITH LATCH PAWL*



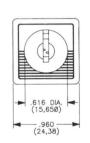
Key and latch pawl shown in Pos. 1.

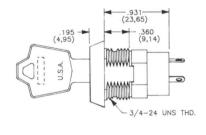
* See AVAILABLE OPTION COMBINATIONS, below.

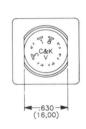
S SQUARE FACING, WITH MOUNTING NUT.*

T SQUARE FACING, WITH MOUNTING CLIP.*









AVAILABLE OPTION COMBINATIONS

MTG. STYLES	LC	LOCK FINISHES					CK FINISHES LOCK TYPES				
LOCK STYLES	1	2	4	8	F	А	В	С	N	Р	R
N		•		•	•	•	•	•		•	
D	8	•		•		•	•		•	•	
R	•		•	•				•	•		
L	•			•				•			
S		-							95		
T			•					•		•	

INDICATES AVAILABLE OPTION COMBINATION

^{*} See AVAILABLE OPTION COMBINATIONS, below.





4 and 5 Tumbler Switchlocks

CONTACT / TERMINAL MATERIALS

- B CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
- CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3. 01 terminations UL listed, all other terminations UL/CSA listed.

SEALING

(None) No Seal-Std. E EPOXY SEAL OF LOTS MAX.

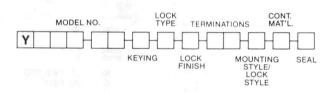
HOW TO ORDER

Complete the order number below by selecting the desired model no., keying, lock type, lock finish, termination, mounting style/lock style, and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: Y141-7U-3-C-2-02-D-B-).

For epoxy terminal seal, specify 'E' in SEAL box; for no seal, leave box empty. 2 keying option, C four tumbler lock, 2 finish with stainless steel facing, N mounting style/lock style with nut, Q contact material and no epoxy terminal seal are supplied if no options are specified.

UL/CSA listed with all options when ordered with G or Q contact material.

Note: 01 terminations, UL listed only.



AVAILABLE HARDWARE

P/N DESCRIPTION 17-505-07-00 Standard mounting nut 17-505-03-00 Mounting clip 17-505-02-00 Internal tooth lockwasher (not shown)

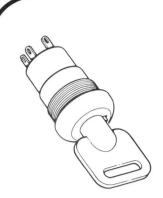
Removable dress nuts—fit R and L mounting styles/lock styles:

5313-00-201 Dress nut with 1 nickel finish 5313-00-727 Dress nut with 8 black finish 5313-00-535 Dress nut with 4 polished nickel finish





6 Tumbler Tubular Switchlocks



SPECIFICATIONS

CONTACT RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
ELECTRICAL LIFE: 10,000 make-and-break

cycles at full load.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2–4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10° ohms min.
DIELECTRIC STRENGTH: 1,000 V RMS min. @
sea level.

INDEXING: 90°—2 positions. Other functions avail., consult factory.

STATIC RESISTANCE: ANTI-STATIC MODELS exceed 20 KV DC static resistance @ sea level, lock body to terminals.

MATERIALS

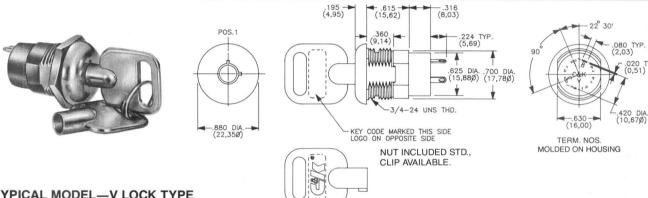
LOCK: Zinc alloy with polished nickel finish, std. KEYS: Zinc alloy, nickel plated, with code no. SWITCH HOUSING & TOP PLATE: Glass filled polyester (UL 94V-0).

CONTACTS: Copper, silver plated (Q cont. mat'l.). TERMINALS: Copper, silver plated (Q cont. mat'l.). MOUNTING NUT: Zinc alloy or steel, nickel or bright zinc plated.

MOUNTING CLIP: Steel, nickel or bright zinc plated.

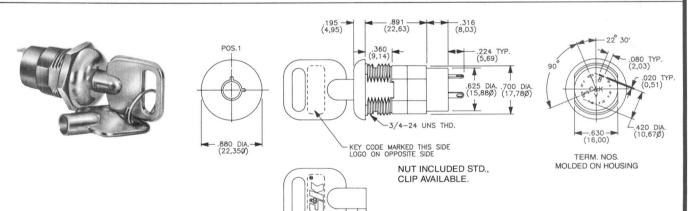
NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.



TYPICAL MODEL—V LOCK TYPE (6 TUMBLER)

MODEL SHOWN: Y101-13-2-V-4-03-N-Q



TYPICAL MODEL—W LOCK TYPE (6 TUMBLER, ANTI-STATIC SWITCH)

MODEL SHOWN: Y101-13-2-W-4-03-N-Q

Y DOG	Y DODEDODO MODELS / SWITCHING AND LOCK FUNCTION											
LOCK	MODEL NO.		ALS	KEY PULL POSSIBLE								
CONFIGURATION (as viewed from key end)	NO. POLES	POS. 1	POS. 2	POS. 3	IN THESE POSITIONS							
POS.1 90° INDEXING	Y101-13 SP Y201-13 DP	8-1 8-1,4-5	1-3 1-3,5-7	dutta	POS.1							
POS.1 90° INDEXING	Y101-1U SP Y201-1U DP	8-1 8-1,4-5	1-3 1-3,5-7		POS.1 POS.2							



6 Tumbler Tubular Switchlocks

LEGEND

For model section, previous page.

- = Detent positions (45° or 90°).
- Exercise the second of or • stop positions.

Bottom view shown for clarification of connected terminals from model section, previous page.



TERM. NOS. MOLDED ON HOUSING

KEYING

2 (Std.) Two nickel plated zinc keys, ringed together, order keved alike.

3 One nickel plated zinc key, order keyed alike.

For more than one key code, master keying, replacement keys or other special features, consult factory. Standard keying features include two nickel plated zinc keys ringed together, all switchlocks supplied with the same key code.



LOCK TYPES

6 Tumbler, tubular lock.

6 Tumbler, tubular lock, anti-static model.

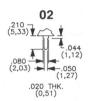
LOCK FINISH

Polished nickel.

6

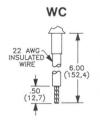












Black wire std. other colors. gages, and lengths avail consult factory

MOUNTING STYLE

N (Std.)

Hex mounting nut.

Mounting clip.

CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

- B CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
- RATING: 0.4 VA max @ 20 V AC or DC max. CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
- G CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3. 01 terminations UL listed, all other terminations UL/CSA listed.

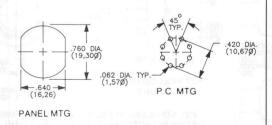
SEALING

E EPOXY SEAL OF 1.075 MAX.



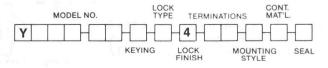
(None) No Seal-Std.

MOUNTING INFORMATION

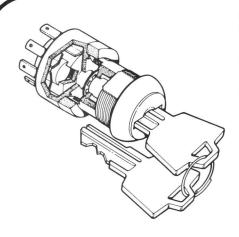


HOW TO ORDER

Complete the order number below by selecting the desired model no., keying, lock type, lock finish, termination, mounting style and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: Y201-1U-3-W-4-WC-N-B-). UL/CSA listed with all options when ordered with G or Q contact material. 01 terminations, UL listed only.



Power Switchlocks



SPECIFICATIONS

CONTACT RATING: 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA)

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2–4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10° ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

INDEXING: 45° or 90°—2–4 positions.
Other functions avail., consult factory.

MATERIALS

LOCK: Zinc alloy with stainless steel facing, std.; black and nickel plated finishes also avail. 4 and 5 tumbler mechanisms avail.

KEYS: Nickel plated brass, with code no. SWITCH HOUSING & TOP PLATE: 6/6 nylon (UL 94V-2), black.

CONTACTS: Copper, silver plated (Q cont. mat'l.).

TERMINALS: Copper, silver plated (Q cont. mat'l.).

CONTACT SPRING: Music wire or stainless steel

MOUNTING NUT: Zinc alloy or steel, nickel or bright zinc plated.

MOUNTING CLIP: Steel, nickel or bright zinc plated.

DRESS NUT: Brass, nickel plated. LOCKING RING: 6/6 nylon (UL 94V-2), black.

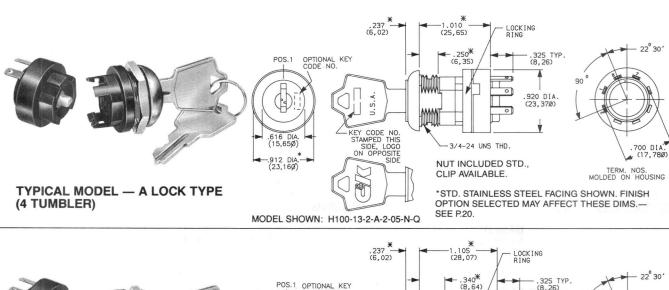
Patent Pending

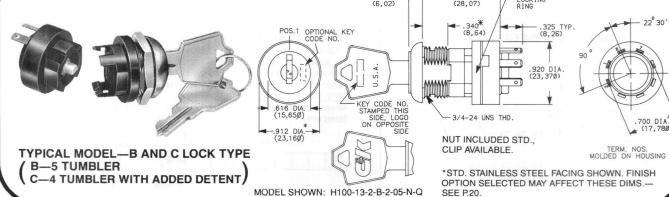
NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

Available options for H SERIES POWER SWITCHLOCKS are shown on pages 19 thru 21. Typical models are shown below. Make selections from the following option sections: Models/Switching & Lock Function, Keying, Lock Types, Lock Finishes, Terminations, Mounting Styles/Lock Styles and Contact/Terminal Materials. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 21. UL/CSA listed with all options when ordered with G or Q contact material.





Power Switchlocks

MODELS/SWITCHING AND LOCK FUNCTION (See legend, below)									
LOCK CONFIGURATION	MODEL NO.		CONNECTED TE	RMINALS (See ter	rminal locations below	w.)	KEY PULL POSSIBLE		
(AS VIEWED FROM KEY END)	NO. POLES	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	THESE		
POS.1 2 45° INDEXING	H100-13 SP H200-13 DP	7-8 7-8,3-4	8-1 8-1,4-5	1-2 1-2,5-6			POS.1		
POS.1 2 45° INDEXING	H100-1C SP H200-1C DP	7-8 7-8,3-4	8-1 8-1,4-5	1-2 1-2,5-6			POS.3		
POS.1 2 45° INDEXING	H100-1U SP H200-1U DP	7-8 7-8,3-4	8-1 8-1,4-5	1-2 1-2,5-6			P0S.1 P0S.3		
POS.1 3 2 45° INDEXING	H100-82 SP H200-82 DP	7-8 7-8,3-4	8-1 8-1,4-5	6-7 6-7,2-3			POS.1		
POS.1 POS.1 POS.1 A5° INDEXING	H100-AA SP H200-AA DP	7-8 7-8,3-4	8-1 8-1,4-5	6-7 6-7,2-3			POS.1 POS.2 POS.3		
POS.1	H100-AB SP H200-AB DP	7-8 7-8,3-4	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7		POS.1,POS.2 POS.3,POS.		
POS.1 90° INDEXING	H101-13 SP H201-13 DP	7-8 7-8,3-4	8-2 8-2,4-6				POS.1		
POS.1 90° INDEXING	H101-1C SP H201-1C DP	7-8 7-8,3-4	8-2 8-2,4-6				POS.2		
POS.1 90° INDEXING	H101-1U SP H201-1U DP	7-8 7-8,3-4	8-2 8-2,4-6				POS.1 POS.2		
POS.1 90° INDEXING	H141-73 SP	6-8	8-2	5-6			POS.1		
POS.1 90° INDEXING	H141-7C SP	6-8	8-2	5-6			POS.2 POS.3		
POS.1 90° INDEXING	H141-7U SP	6-8	8-2	5-6			POS.1 POS.2 POS.3		

- **LEGEND:** = Detent positions (45° or 90°).
 - Key pull possible in these positions.
 - or

 Stop positions.

TERMINAL NUMBERS



Terminal nos. molded on bottom of housing.

AVAILABLE OPTION COMBINATIONS

	LOC	LOCK TYPES 1		TER	MINAT	TIONS	МТ	G./L	OCK	STYL	ES
MODELS	Α	В	С	01	05	WC	N	D	L	S	Т
HX00-13	•	•		•				•			
HX00-1C	•	•		•	•	•	•	•		•	
HX00-1U			•		•	•					
HX00-82		•	•	•	•	•				•	
HX00-AX			•	•	•	•					
HX01-13	Ī	•	•		•	•	•	•			
HX01-1C		•	•		•	•	•	•		•	•
HX01-1U		•	•			•	•	•	•		
H141-XX			•		•	•					

INDICATES AVAILABLE OPTION COMBINATION





Power Switchlocks

KEYING

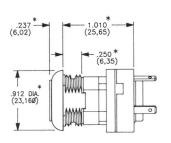
NICKEL PLATED KEYS

OPTION CODE NO.	NO. KEYS	KEY CODE STAMPED ON LOCK	ORDER KEYED ALIKE
2 (STD.) †	2	NO	YES
3	1	NO	YES
6	2	YES	YES
7	1	YES	YES

For more than one key code, master keying, replacement keys, or other special features, consult factory.

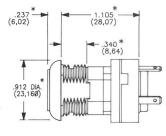
LOCK TYPES

4 tumbler lock



5 tumbler lock (added security, more key codes avail., consult factory).

4 tumbler lock, with added detent mechanism in lock (Std.). (Recommended for low level or dry circuit switching).



^{*} Dims. shown for models with std. stainless steel facing, finish option 2. Finish option selected may affect these dims.—see LOCK FINISHES section, below. For complete lock and switch dimensions, see p.18.

AVAILABLE OPTION COMBINATIONS

LOCK	MT	G./LC	OCK	STY	LES
TYPES	N	D	L	S	Т
Α	•	•			
В	•	•		•	•
С	•	•	•	•	•

[•] INDICATES AVAILABLE OPTION COMBINATION

LOCK FINISHES

Stainless Facing (Std.)*

Polished Nickel

Gloss Black

High Gloss Nickel Plated Facing*











LOCK DIMENSIONS

Lock dimensions can vary with finish option selected. See chart.

'Z' -	'X'	
-	Y	
, w		

Note: Dims. shown for N, D Mounting Styles/Lock Styles. Dims. for L, S, T Mounting Styles/Lock Styles do not vary with Finish Option selected, see p. 22.

FINISH	2014	DIN	AS.		
OPTIONS	'W'	'X'	'Y'	ʻZ'	
1,4	.880 .880	1.030 1.125	.270 .360	.220 .220	← A LOCK TYPE ← B & C LOCK TYPES
2,8,F	.912	1.010	.250	.237	← A LOCK TYPE ← B & C LOCK TYPES

AVAILABLE OPTION COMBINATIONS

	MTG./LOCK STYLE							
FINISHES	N	D	L	S	Т			
1		THE	•	•	•			
2	•	•						
4			•	•	•			
8	•	•	•		•			
F								

[•] INDICATES AVAILABLE OPTION

[†] Std. keying features include two nickel plated brass keys ringed together, no key code no. on face of lock, all switchlocks supplied with the same key code.

^{*} Not available with L, S or T mounting styles.



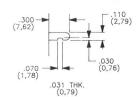
H Series

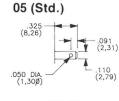
T



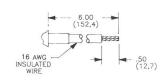
TERMINATIONS

01





WC



Black wire std., other colors, gages, and lengths avail., consult factory.

AVAILABLE OPTION COMBINATIONS

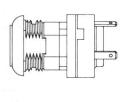
	MODELS			
TERMINATIONS	HX00-XX	HXX1-XX		
01	•			
05	•	•		
WC	•	•		

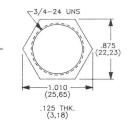
[•] INDICATES AVAILABLE OPTION COMBINATION

MOUNTING STYLES/LOCK STYLES

N WITH NUT*



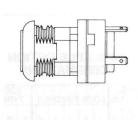


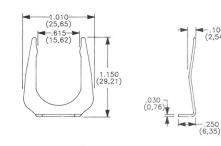


Nut P/N 17-505-07-00

D WITH CLIP*







Clip P/N 17-505-03-00

* See AVAILABLE OPTION COMBINATIONS, p.22.

(CONT'D.)

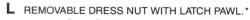
⊢.100 (2,54)

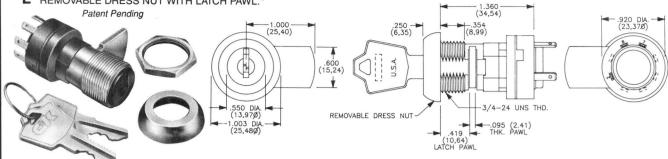




Power Switchlocks







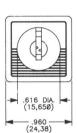
Key and latch pawl shown in Pos. 1.

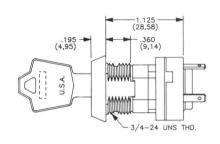
* See AVAILABLE OPTION COMBINATIONS, below.

SQUARE FACING, WITH MOUNTING NUT.* SQUARE FACING, WITH MOUNTING CLIP.*









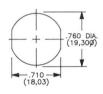


* See AVAILABLE OPTION COMBINATIONS, below.

PANEL MOUNTING







FOR MODELS WITH L MOUNTING STYLE

LOCK TYPE	MTG. STYLE	PANEL THICKNESS 1,4 LOCK FINISHES	PANEL THICKNESS 2,8,F LOCK FINISHES
A	NUT	.125 (3,18) max.	.105 (2,67) max.
4 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)
B, C	NUT	.215 (5,46) max.	.195 (4,95) max. ,
4 & 5 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)

AVAILABLE OPTION COMBINATIONS

MTG. STYLES	LO	CK	FIN	LOCK TYPES				
LOCK STYLES	1	2	4	8	F	А	В	С
N		•			•	•	•	•
D		•		•	•	•	•	•
L			•					
S			•				•	•
Т	•		•				•	

• INDICATES AVAILABLE OPTION COMBINATION





CONTACT / TERMINAL MATERIALS

- CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. RATING: 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA)
- CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

HOW TO ORDER

Complete the order number below by selecting the desired Model/Switching & Lock Function. Keying, Lock Type, Lock Finish, Termination, Mounting Style/Lock Style and Contact/Terminal Material options. Place the option codes in the appropriate boxes of the ordering format. (Example: H200-82-7-C-2-WC-D-G).

2 keying option, C four tumbler lock, 2 finish with stainless steel facing, N mounting style with nut and Q contact/terminal material are supplied if no options are specified.

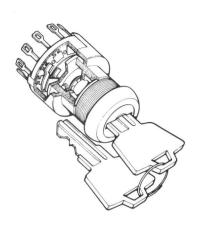
UL/CSA listed with all options when ordered with G or Q contact material.

AVAIL ABLE HARDWARE

AVAILABLE HARI	DWARE
P/N	DESCRIPTION
17-505-07-00	Standard mounting nut
17-505-03-00	Mounting clip
17-505-02-00	Internal tooth lockwasher (not shown)
17-300-02-00	Plastic locking ring (retains switch to lock)
Removable dress	nuts—fit L mounting style/lock style:
	P/N 17-505-07-00 17-505-03-00 17-505-02-00 17-300-02-00

5313-00-201 Dress nut with 1 nickel finish 5313-00-727 Dress nut with 8 black finish 5313-00-535 Dress nut with 4 polished nickel finish

> TERMINATIONS MAT'L. MODEL NO. MOUNTINGISTYLE/ KEYING LOCK STYLE



SPECIFICATIONS

CONTACT RATING: Switch-2.5 AMPS @ 125 V AC or 28 V DC;150 mA @ 250 V AC or DC (UL/CSA). Carry-5 AMPS continuous.

ELECTRICAL LIFE: 15.000 make-and-break cycles at full load up to 300,000 detent operations.

CONTACT RESISTANCE: Below 20 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

OPERATING TEMPERATURE: - 30°C to 85°C

INDEXING: 30°-45°-90° indexing available, see MODELS, page 26.

STATIC RESISTANCE: ANTI-STATIC MODELS exceed 20 KV DC static resistance @ sea level, lock body to terminals.

MATERIALS

LOCK: Zinc alloy. Bright nickel plating std. with A, B lock types; stainless steel facing std. N, P lock types. Four or five tumbler mechanisms available.

KEYS: Brass, nickel plated, with code no. SWITCH HOUSING: Glass filled nylon. TOP PLATE: Glass filled nylon.

MOVABLE CONTACT: Coin silver, silver plated (Q cont. mat'l.).

STATIONARY CONTACTS & TERMINALS: Brass, silver plated (Q cont. mat'l.)

DRESS NUT: Brass, nickel plated. MOUNTING NUT: Zinc alloy or steel, nickel or bright zinc plated.

MOUNTING CLIP: Steel, nickel or bright zinc plated

LOCKING RING: 6/6 nylon (UL 94V-2), black.

NOTE

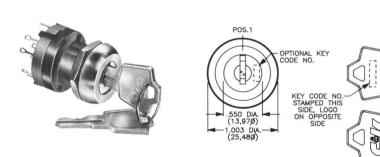
Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models,

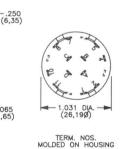
-1.036-(26.31)

REMOVEABLE DRESS NUT

INTRODUCTION

Available options for A SERIES SWITCHLOCKS are shown on pages 26 thru 31. Typical models are shown below and on next page. Make selections from the following option sections: Model/Switching & Lock Function, Keying, Lock Type, Lock Finish, Shorting/Non-Shorting Contacts, Terminations, Mounting Style/Lock Style, Contact Material and (if desired) Epoxy Terminal Seal. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 31. UL/CSA listed with all options when ordered with G or Q contact material.



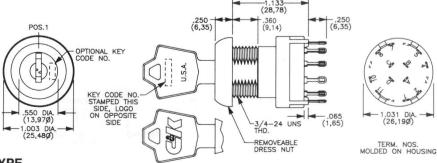


TYPICAL MODEL—A LOCK TYPE (W / REMOVABLE DRESS NUT) (4 TUMBLER MODEL)

MODEL SHOWN: A420-19-2-A-1-N-Z-R-Q

HEX MTG. NUT INCLUDED.



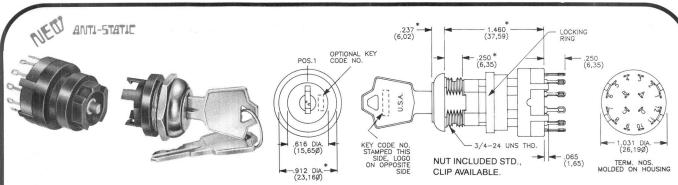


TYPICAL MODEL—B LOCK TYPE (W / REMOVABLE DRESS NUT) (5 TUMBLER MODEL)

MODEL SHOWN: A420-19-2-B-1-N-Z-R-Q

HEX MTG. NUT INCLUDED.

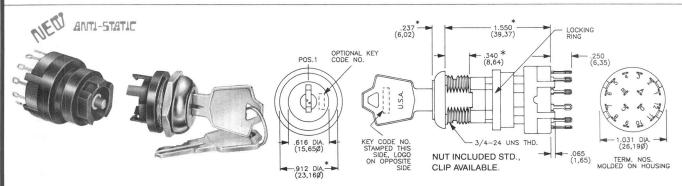




TYPICAL MODEL—N LOCK TYPE (W / SNAP-ON SWITCH) (4 TUMBLER MODEL)

MODEL SHOWN: A420-19-2-N-2-N-Z-N-Q

* Std. stainless steel facing shown. Finish option selected may affect these dims.—see p. 28.



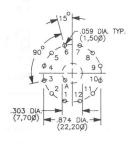
TYPICAL MODEL—P LOCK TYPE (W / SNAP-ON SWITCH) (5 TUMBLER MODEL)

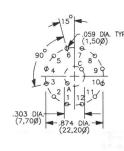
* Std. stainless steel facing shown. Finish option selected may affect these dims.—see p. 28.

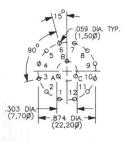
MODEL SHOWN: A420-19-2-P-2-N-Z-N-Q

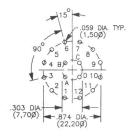
P.C. MOUNTING

(For panel mounting information, see page 30.)









TERMINAL NUMBERS

(BOTTOM VIEWS)



SP MODELS



DP MODELS



3P MODELS



4P MODELS

Term. nos. molded on bottom of housing.

Note: Switchlock models A114, A115, A116, A120, A121 and A123 with C terminations have additional terminal no. 8 as switch support only. This terminal is not connected electrically inside switch.



LOCK		MODEL	NO.			INECTED TERMINA			CONNECTED TERMINALS (See terminal locations, page 25.)						
CONFIGURATI (AS VIEWED FROM KI			POLES	POS. 1	POS. 2	POS. 3	POS. 4	POS. 5	POS. 6	POS. 7	POSSIBLE THESE POSITIONS				
POS.1	90° INDEXING	A114-13 A214-13 A314-13	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-4 A-4,C-10 A-4,B-8,C-12						POS.1				
POS.1	90° INDEXING	A114-1C A214-1C A314-1C	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-4 A-4,C-10 A-4,B-8,C-12						POS.2				
POS.1	90° INDEXING	A114-1U A214-1U A314-1U	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-4 A-4,C-10 A-4,B-8,C-12						POS.1 POS.2				
POS.1	45° INDEXING	A115-13 A215-13 A315-13	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-4 A-4,C-10 A-4,B-8,C-12					POS.1				
POS.1	45° INDEXING	A115-1C A215-1C A315-1C	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-4 A-4,C-10 A-4,B-8,C-12					POS.3				
POS.1	45° INDEXING	A115-1U A215-1U A315-1U	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-4 A-4,C-10 A-4,B-8,C-12					POS.1 POS.3				
POS.1	45° INDEXING	A115-82 A215-82	SP DP	A-4 A-4,C-10	A-5 A-5,C-11	A-2 A-2,C-8					POS.1				
POS.1	30° INDEXING	A116-13 A216-13 A316-13	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-3 A-3,C-9 A-3,B-7,C-11	A-4 A-4,C-10 A-4,B-8,C-12				POS.1				
	30° INDEXING	A116-1C A216-1C A316-1C	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-3 A-3,C-9 A-3,B-7,C-11	A-4 A-4,C-10 A-4,B-8,C-12				POS.4				
POS.1	30° INDEXING	A116-1U A216-1U A316-1U	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2 A-2,C-8 A-2,B-6,C-10	A-3 A-3,C-9 A-3,B-7,C-11	A-4 A-4,C-10 A-4,B-8,C-12				POS.1 POS.4				
POS.1	90° INDEXING	A117-73	SP	A-1	A-4	A-10					POS.1				
POS.1	90° INDEXING	A117-7C	SP	A-1	A-4	A-10					POS.2 POS.3				
POS.1	90° INDEXING	A117-7U	SP	A-1	A-4	A-10	=				POS.1 POS.2 POS.3				
POS.1	30° INDEXING	A120-19 A220-19 A320-19 A420-19	SP DP 3P 4P	A-1 A-1,C-7 A-1,B-5,C-9 A-1,B-4,C-7,D-10	A-2 A-2,C-8 A-2,B-6,C-10 A-2,B-5,C-8,D-11						POS.1				
POS.1	45° INDEXING	A121-12 A221-12 A321-12 A421-12	SP DP 3P 4P	A-1, B-4, C-7, B-10 A-1, C-7 A-1, B-5, C-9 A-1, B-4, C-7, D-10	A-2, B-5, C-8, D-11 A-2 A-2, C-8 A-2, B-6, C-10 A-2, B-5, C-8, D-11						POS.1				
POS.1	30° INDEXING	A123-10 A223-10 A323-10 A423-10	SP DP 3P	A-1 A-1,C-7 A-1,B-5,C-9	A-2,B-5,C-8,D-11 A-2 A-2,C-8 A-2,B-6,C-10 A-2,B-5,C-8,D-11	A-3 A-3,C-9 A-3,B-7,C-11					POS.1				

AVAILABLE OPTION COMBINATIONS

LEGEND: • = Detent positions (30°, 45° or 90°).

Key pull possible in these positions.

• or • = Stop positions.

	LC	OCK	TYPE	SHORTING/ NON-SHORTING		
MODELS	Α	В	N	Р	N	S
AX14-XX		•	•		•	
AX15-XX		•			•	
AX16-XX		•	•		•	•
AX17-XX	•	•			•	
AX20-XX	•				•	•
AX21-XX	•				•	
AX23-XX	•		•		•	•

[•] INDICATES AVAILABLE OPTION COMBINATION









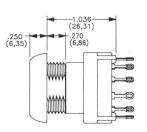
KEYING

OPTION CODE NO.	NO. KEYS	KEY CODE STAMPED ON LOCK	ORDER KEYED ALIKE
2 (STD.) *	2	NO	YES
3	1	NO	YES
6	2	YES	YES
7	1	YES	YES

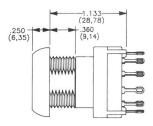
For more than one key code, master keying, replacement keys, or other special features, consult factory.

LOCK TYPES

A 4 tumbler lock with removable dress nut.



В 5 tumbler lock with removable dress nut (added security, more key codes avail., consult factory).



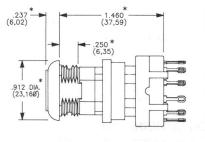
SHORT ANTI-STATIC LOCK TYPES

Exceeds 20 KV DC Static Resistance @ Sea Level, Lock Body To Terminals.



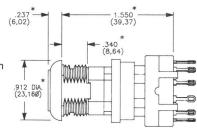
N

4 tumbler lock with ANTI-STATIC SWITCH.





5 tumbler lock with ANTI-STATIC SWITCH.



*Dims, shown for models with std. stainless steel facing, finish option 2. Finish option selected may affect these dims. see LOCK FINISHES section, p.28. For complete lock and switch dimensions, see pages 24 and 25. For mounting information, see pages 29 and 30.

AVAILABLE OPTION COMBINATIONS

Р	•				
N	•				
В			•		
Α			•		
LOCK TYPES	N	D	R	S	Т
LOCK	٨	/ITG./L	OCK S	TYLE	S

• INDICATES AVAILABLE OPTION COMBINATION

^{*} Std. keying features include two nickel plated brass keys ringed together, no key code no. on face of lock, all switchlocks supplied with the same key code.



LOCK FINISHES

FINISHES AVAILABLE WITH A AND B LOCK TYPES:

Nickel (Std. with A, B lock types.)



Polished Nickel



Gloss Black



FINISHES AVAILABLE WITH N AND P LOCK TYPES:

Nickel

Stainless Facing * (Std. with N, P lock types.) 4 Polished Nickel

Gloss Black

High Gloss Nickel Plated Facing*







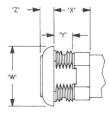




* Not available with R, S or T mounting styles.

LOCK DIMENSIONS—N AND P LOCK TYPES:

Lock dimensions can vary with finish option selected. See chart.



FINISH		DIM	ИS.		
OPTIONS	'W'	'X'	'Y'	'Z'	
1,4	.880	.518	.270	.220	← N LOCK TYPE
	.880	.615	.360	.220	← P LOCK TYPE
2,8,F	.912	.498	.250	.237	← N LOCK TYPE
	.912	.595	.340	.237	← P LOCK TYPE

Note: Dims. shown for N, P Lock Types. Dims. for A, B Lock Types do not vary with Finish Option selected, see page 27.

AVAILABLE OPTION COMBINATIONS

	LC	OCK	TYPE	ES	MT	MTG./LOCK STYLES					
FINISHES	Α	В	N	Р	N	D	R	S	T		
1		•				•	•	•			
2				•							
4					•	•	•	•			
8											
F						•					

• INDICATES AVAILABLE OPTION COMBINATION

SHORTING/NON-SHORTING CONTACTS

N (Std.) Non-shorting contacts- break before make.

S Shorting contacts- make before break.

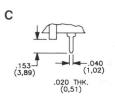
Note: S shorting contacts not avail. with the following models: A114, A214, A314 and A117.

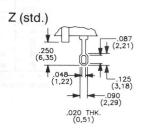
AVAILABLE OPTION COMBINATIONS

SHORTING/	MODELS								
NON-SHORTING	AX14–XX	AX15-XX	AX16-XX	AX17–XX	AX2X-XX				
N	•	•	•	•	•				
S		•	•		•				

• INDICATES AVAILABLE OPTION COMBINATION

TERMINATIONS



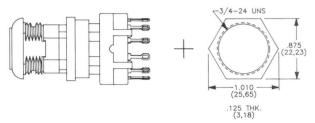




MOUNTING STYLES/LOCK STYLES

N WITH NUT*

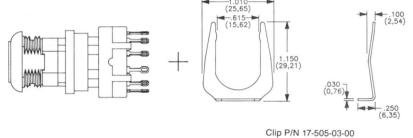




Nut P/N 17-505-07-00

D WITH CLIP*

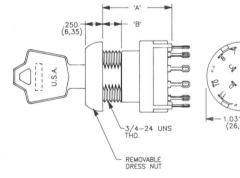




R REMOVABLE DRESS NUT *

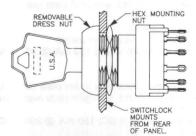






TYPICAL INSTALLATION

Install hex nut, leaving clearance for dress nut and panel. From rear-of-panel place switch through panel cutout. Install and tighten dress nut by hand then tighten hex nut. Always tighten assembly with back-of-panel hex nut to avoid damaging front of panel.



LOCK TYPE	DIMENSIONS					
LOCK TYPE	'A'	'B'				
Α	1.036 (26,31)	.270 (6,68)				
В	1.133 (28,78)	.360 (9,14)				

*See AVAILABLE OPTION COMBINATIONS and PANEL MOUNTING INFORMATION, page 30.

(CONT'D.)





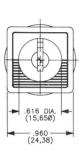
MOUNTING STYLES/LOCK STYLES (Cont'd)

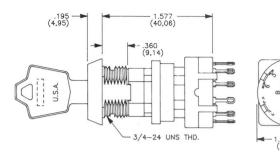
S SQUARE FACING, WITH MOUNTING NUT.*

 ${f T}$ SQUARE FACING, WITH MOUNTING CLIP.*









* See AVAILABLE OPTION COMBINATIONS, below.

MOUNTING INFORMATION (ALL MODELS)

PANEL MOUNTING



FOR MODELS WITH N, D, S OR T MOUNTING STYLES



FOR MODELS WITH R MOUNTING STYLES

LOCK TYPE	MTG. STYLE	PANEL THICKNESS 1,4 LOCK FINISHES	PANEL THICKNESS 2,8,F LOCK FINISHES
A, N	NUT	.125 (3,18) max.	.105 (2,67) max.
4 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)
B, P,	NUT	.215 (5,46) max.	.195 (4,95) max.
5 tumbler models	CLIP	.085105 (2,16-2,67)	.065085 (1,65-2,16)

AVAILABLE OPTION COMBINATIONS

MTG. STYLES/	L	ОСК	FINI	LOCK TYPES					
LOCK STYLES	1	2	4	8	F	Α	В	N	Р
N		•			•			•	
D		•							
R	•		•			•	•		
S	•		•	•					
T	•								

• INDICATES AVAILABLE OPTION COMBINATION

CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

- B MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- Q MOVABLE CONTACT: Coin silver, silver plated. STATIONARY CONTACTS & TERMINALS: Brass, silver plated.

RATING: Switch-2.5 AMPS @ 125 V AC or 28 V DC; 150 mA @ 250 V AC or DC (UL/CSA).

Carry- 5 AMPS continuous

(Std. with all termination options)

G MOVABLE CONTACT: Coin silver, with gold plate over nickel plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or Switch-2.5 AMPS @ 425 VAC STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

Switch-2.5 AMPS @ 125 V AC or 28 V DC; 150 mA @ 250 V AC or DC (UL/CSA). Carry- 5 AMPS continuous.

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.



SEALING

(None)

No seal

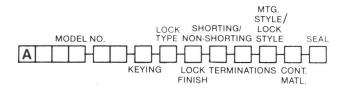
Std. with all termination options.

HOW TO ORDER

Complete order number below by selecting the desired model no., keying, lock type, lock finish, shorting or non-shorting contacts, termination, mounting style/lock style, and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: A120-19-6-P-1-S-C-N-B-).

For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. 2 keying option, N nonshorting contacts, Z terminations and Q contact material are supplied if no options are specified.

UL/CSA listed with all options when ordered with G or Q contact material.



AVAILABLE HARDWARE

P/N DESCRIPTION

17-505-07-00 Standard mounting nut

Mounting clip 17-505-03-00

17-505-02-00 Internal tooth lockwasher (not shown)

Plastic locking ring (retains switch to lock—N and P Lock Types only) 17-300-02-00

Removable dress nuts—fit R mounting style/lock style:

5313-00-201 Dress nut with 1 nickel finish

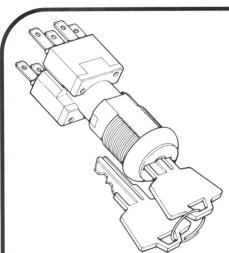
5313-00-727 Dress nut with 8 black finish

5313-00-535 Dress nut with 4 polished nickel finish





Switchlocks With Snap-Acting Switches



SPECIFICATIONS

CONTACT RATING: 5 AMPS @ 250 V AC or 28 V DC (with solder lug or quick connect terminals) UL/CSA/VDE; 1 AMP @ 250 V AC or 28 V DC (with wire wrap terminals) UL/CSA.

ELECTRICAL LIFE: 70,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 20 milliohms typ. initial @ 2–4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 20° ohms min. DIELECTRIC STRENGTH: 2,000 V RMS min. @ sea level.

INDEXING: 65° momentary pos. or 90° maintained pos., 3 pos. max.

MATERIALS

LOCK: Zinc alloy with stainless steel facing std.; black and nickel plated finishes also avail

KEYS: Nickel plated brass, with code no. SWITCH HOUSING: Diallyl phthalate (DAP). SWITCH COVER: Polyphenylene oxide. TERMINAL INSULATOR: Glass filled nylon. CONTACTS: Silver, gold plated (G cont. mat'l.).

TERMINALS: Brass, gold plated (G cont. mat'l.).

MOUNTING NUT: Zinc alloy or steel, nickel or bright zinc plated.

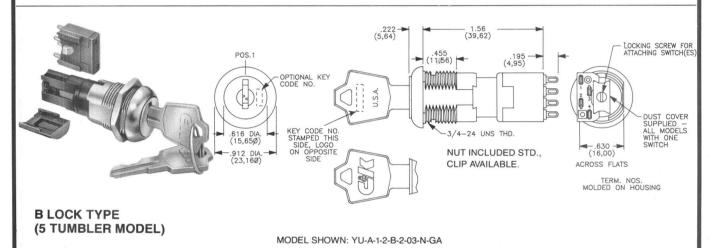
MOUNTING CLIP: Steel, nickel or bright zinc plated.

Note: Specifications and Materials listed above are general specifications with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

Available options for YU SERIES SWITCHLOCKS WITH SNAP-ACTING SWITCHES are shown on pages 33 thru 35. A typical model is shown below. Make selections from the following option sections: Series/Lock Function, Switches, Keying, Lock Type, Lock Finishes, Terminations, Mounting Styles and Contact/Terminal Materials. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 35. UL listed with all options. CSA and VDE also available, see page 35.

Available only in the U.S., Canada and Mexico.



PANEL MOUNTING

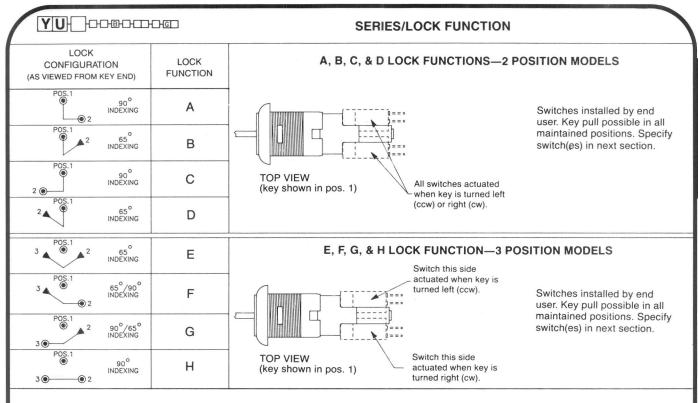


LOCK TYPE	MTG. STYLE	PANEL THICKNESS
В	NUT	.375 (9, 50) max.
5 tumbler model	CLIP	.085105 (2, 16-2,67)





Switchlocks With Snap-Acting Switches



SWITCH(ES)

0 No switches supplied.

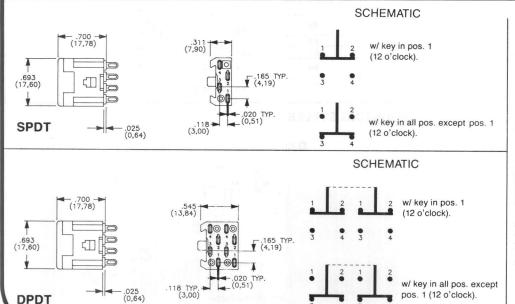
LEGEND: ▼ = Momentary position (65°).

- 4 One ODDT mittals (days)
- 2 Two SPDT switches.
- One SPDT switch (dust cover supplied).
- 3 One SPDT and one DPDT switch.
- 4 Two DPDT switches.

• = Key pull possible in these positions.

5 One DPDT switch (dust cover supplied).

Note: Dust cover supplied on models with one switch, covers open switch mounting point, dust cover P/N 5826. To order switch(es) separately, specify desired P/N, see chart below. For ratings and available contact material, see p. 35.



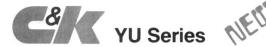
TO ORDER SWITCH(ES) ONLY:

▼ or
● = Stop positions.

SWITCHES ONLY — SPDT						
TH25-12-03-G	W/	03	TERM.	UL/CSA *		
TH25-12-06-G	W/	06	TERM.	UL/CSA		
TH25-12-07-G	W/	07	TERM.	UL		
TH25-12-09-G	W/	09	TERM.	UL/CSA *		
SWITCHES ONLY — DPDT						
TH25-22-03-G	W/	03	TERM.	UL/CSA		
TH25-22-06-G	W/	06	TERM.	UL/CSA		
TH25-22-07-G	w/	07	TERM	UL		
11120 22 07 0	"'/	07	I CI VIVI			

Switches can be ordered separately. Select desired P/N from chart.

*VDE avail., see p. 35.





Switchlocks With Snap-Acting Switches

KEYING

OPTION CODE NO.	CODE NO. NO. KEYS KEY CODE STAMPED ON LOCK		ORDER KEYED ALIKE		
2 (STD.) *	2	NO	YES		
3	1	NO	YES		
6	2	YES	YES		
7	1	YES	YES		

For more than one key code, master keying, replacement keys, or other special features, consult factory.

* Std. keying features include two nickel plated brass keys ringed together, no key code no. on face of lock, all switchlocks supplied with the same key code.

LOCK TYPE

B 5 disc tumbler lock

MATCHCHEN НЕТНЕП

LOCK FINISHES

Stainless Facing (Std.)



High Gloss Nickel Plated Facing



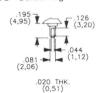




Н

TERMINATIONS

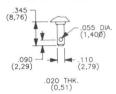
03 Solder lug



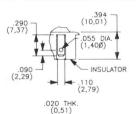
06 Wire-wrap



07 Quick connect



09 Quick connect w/ insulator

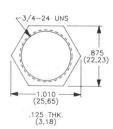


AVAILABLE OPTION COMBINATIONS

TERMINATIONS	CONTACT MATERIALS/RATINGS			
TERMINATIONS	GU	GA	GF	
03	N/A	STD.	AVAIL. (SP ONLY)	
06		STD.	NI/A	
07	STD.	N/A	N/A	
09	N/A	STD.	AVAIL. (SP ONLY)	

N/A = NOT AVAILABLE

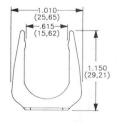
N (Std.) NUT



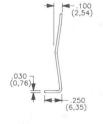
P/N 17-505-07-00

MOUNTING STYLES

D CLIP



P/N 17-505-03-00



For panel mounting information, see page 32.

TERMINATIONS





CONTACT/TERMINAL MATERIALS & RATINGS

CONTACT/TERMINAL MATERIALS

CONTACTS: Silver, gold plated. TERMINALS: Brass, gold plated.

RATINGS

UL LISTED SWITCH. 0.4 VA max. @ 20 V AC or DC max. or 5 AMPS @ 250 V AC or 28 V DC. Must be ordered with 07 terminations.

UL/CSA LISTED SWITCH. 03, 09 terminations: 0.4 VA max. @ 20 V AC or DC ma 28 V DC. 06 20 V AC or D AC or 28 V D terminations

THE PART OF A STATE OF		- 00	00	0.	
ax. or 5 AMPS @ 250 V AC or	U	N/A		STD.	N/A
Sterminations: 0.4 VA max. @	Α	STD.	STD.	N/A	STD.
DC max. or 1 AMP @ 250 V DC. Std. with 03, 06, 09	F	AVAIL. (SP ONLY)	N	/A	AVAIL. (SP ONLY)
S.		N/A = NOT	AVAILA	BLE	
ELISTED SWITCH					

RATINGS

UL/CSA/VDE LISTED SWIT 0.4 VA max. @ 20 V AC or DC max. or 5 AMPS @ 250 V AC or 28 V DC. Avail. only with 03, 09 terminations, SP switches

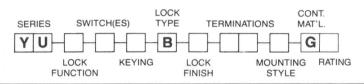
HOW TO ORDER

Complete the order number below by selecting the desired lock function, switch, keying, lock type, lock finish, termination, mounting style and contact material/rating options. Place the option codes in the appropriate boxes of the ordering format. (Example: YU-A-1-7-B-2-03-N-GA).

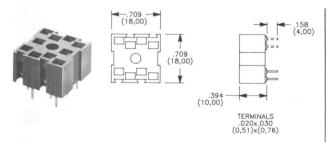
2 keying option, B five tumbler lock, 2 finish with stainless steel facing, N mounting style with nut and G contact/terminal material are supplied if no options are specified.

UL listed with all options. CSA, VDE available, see RATINGS, above. Switches available separately, see page 33.

Available only in the U.S., Canada and Mexico.

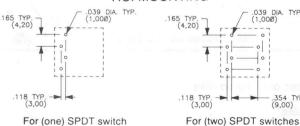


PLUG-IN SOCKETS FOR P.C. MOUNTING

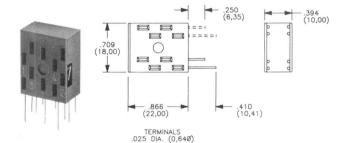


Note: For use with (one) SPDT switch order P/N 5820. For use with (two) SPDT switches order P/N 5821. Socket Rating: 1 AMP @ 250 V AC.

P.C. MOUNTING

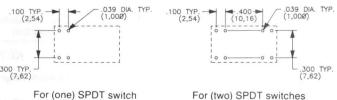


Above sockets to be used with 07 termination only.



Note: For use with (one) SPDT switch order P/N 5823. For use with (two) SPDT switches order P/N 5824. Socket Rating: 1 AMP @ 50 V AC or 72 V DC.

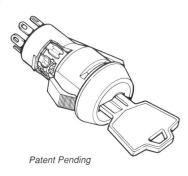
P.C. MOUNTING



For (two) SPDT switches







SPECIFICATIONS

CONTACT RATING: 4 AMPS @ 125 V AC or 28 V DC; 1 AMP @ 250 V AC (UL).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

INDEXING: 45° or 90°, 2-3 positions. Other functions, consult factory.

MATERIALS

LOCK, SWITCH HOUSING & MOUNTING EARS: One piece construction-6/6 nylon (UL 94V-2), black std., other colors avail. 4 disc tumbler mechanism std.

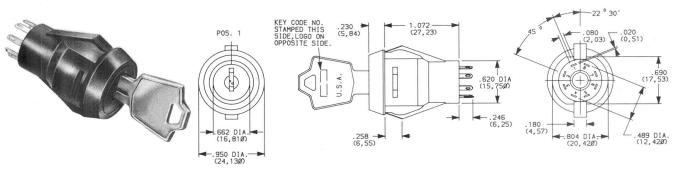
KEYS: Nickel plated brass, with code no.

TUMBLERS: Disc tumblers, brass.

CONTACTS: Copper, silver plated (Q cont. mat'l.). TERMINALS: Copper, silver plated (Q cont. mat'l.). CONTACT SPRING: Music wire or stainless steel.

NOTE

Specifications and Materials listed above are general specifications for switches with standard options. Specifications available for specific models, consult factory.



SNAP-IN MOUNTING

MODEL SHOWN: P100-AF-3-C-M-03-Q-2 MODELS/SWITCHING AND LOCK FUNCTION

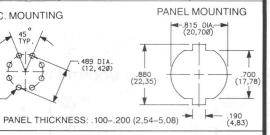
LOCK MODEL CONFIGURATION NO.		CONNECTED TERMINALS			KEY PULL POSSIBLE
(AS VIEWED FROM KEY END)	NO. POLES	POS. 1	POS. 2	POS. 3	IN THESE POSITIONS
POS.1 © 2 INDEXING	P100-AF SP P200-AF DP	8-1 8-1,4-5	1-2 1-2,5-6	2-3 2-3,6-7	POS.1 POS.2 POS.3
POS.1 90° INDEXING	P101-13 SP P201-13 DP	8-1 8-1,4-5	1–3 1–3,5–7		POS.1
POS.1 90° INDEXING	P101-1U SP P201-1U DP	8-1 8-1,4-5	1-3 1-3,5-7		POS.1 POS.2

LEGEND:

- = Detent positions (45° or 90°).
- = Key pull possible in these positions.
- Stop positions.



P.C. MOUNTING .062 DIA. TYP.



KEYING

Two nickel plated brass keys, ringed together, order keyed alike.

One nickel plated brass key, order keyed alike. 3 (Std.)

For more than one key code, master keying, replacement keys or other special features, consult factory. Standard keying features include one nickel plated brass key, all switchlocks supplied with the same key code.





LOCK TYPES

4 Tumbler lock (Std.)

C 4 Tumbler lock with added detent mechanism in lock. (Recommended for low level or dry circuit switching).

\mathbb{R}^{M}

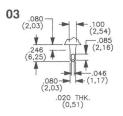
LOCK FINISH

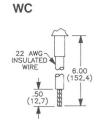
Matte finish on plastic lock housing.

Note: Standard lock color black, other colors available, see below.

معمر 02

TERMINATIONS





CONTACT / TERMINAL MATERIALS

- CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 4 AMPS @ 125 V AC or 28 V DC; 1 AMP @ 250 V AC (UL).
- CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 4 AMPS @ 125 V AC or 28 V DC; 1 AMP @ 250 V AC (UL).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.

SEALING

(None) No Seal-Std



LOCK COLORS

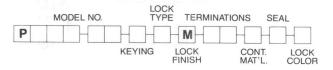
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow

Green Blue 8 Brown Gray

HOW TO ORDER

Complete the order number below by selecting the desired model no., keying, lock type, lock finish, termination, contact/terminal material, terminal sealing and lock color options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled.

(Example: P200 AF 2 C M WC G - 3).
For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. 3 keying option, A lock type, M lock finish, Q contact material, no seal and 2 black lock finish are supplied if no options are specified. UL listed with all options when ordered with G or Q contact material.



Half-Inch Rotary Switchlocks

SPECIFICATIONS

CONTACT RATING: Switch—250 mA max. @ 125 V AC or 28 V DC.

Carry—6 AMPS continuous. Non-shorting contacts std.

ELECTRICAL LIFE: 10,000 make-and-break cycles at 150 mA, 125 V AC or 28 V DC.

CONTACT RESISTANCE: Below 20 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10¹⁰ ohms min. DIELECTRIC STRENGTH: 600 V RMS min. @ sea level

OPERATING TEMPERATURE: - 30°C to 85°C.

INDEXING: 30°, 4 positions.

Note: Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

MATERIALS

LOCK & SWITCH HOUSING: One piece zinc alloy with stainless steel facing std.; black and nickel plated finishes also avail.

KEYS: Nickel plated brass, with code no.

SWITCH BASE: Thermoset plastic, with insert molded terminals.

ROTOR: Glass filled polyester (UL94V-0). MOVABLE CONTACTS:

Non-shorting—Brass, silver plated (Q cont. mat'l.).

Shorting—Zinc alloy, silver plated (Q cont. mat'l.).

STATIONARY CONTACTS: Brass, silver plated (Q cont. mat'l.).

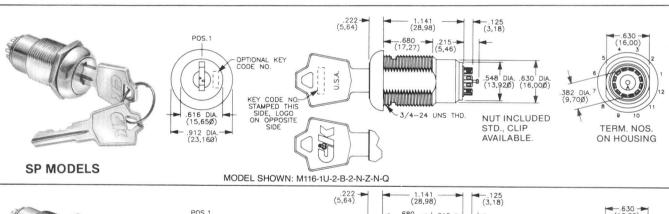
TERMINALS: Brass, silver plated (Q cont. mat'l.). Terminals insert molded. All terminals present regardless of number of switch positions.

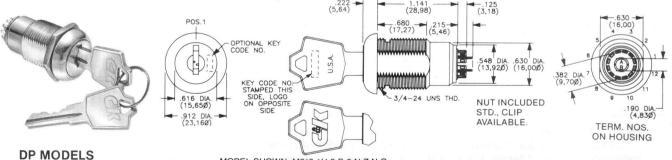
CONTACT SPRING: Music wire, phosphate coated or stainless steel.

MOUNTING NUT: Zinc alloy, nickel or bright zinc plated.
MOUNTING CLIP: Steel, nickel or bright zinc plated.

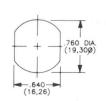
INTRODUCTION

Available options for M SERIES HALF-INCH ROTARY SWITCHLOCKS are shown on pages 39 and 40. Typical models are shown below. Make selections from the following option sections: Model/Switching & Lock Function, Keying, Lock Type, Lock Finish, Shorting/Non-Shorting Contacts, Terminations, Mounting Style and Contact Material. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 40.

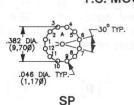


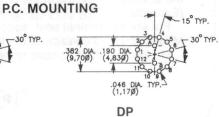


MODEL SHOWN: M216-1U-2-B-2-N-Z-N-Q
PANEL MOUNTING



LOCK FINISH	MTG. STYLE	PANEL THICKNESS
2, 8	NUT	.530 (13,46) max.
2, 8	CLIP	.065 (1,65)085 (2,16)







Half-Inch Rotary Switchlocks

M SERIES OPTIONS

Switchlocks different from those shown on page 38 can be ordered by selecting desired options which begin below. See HOW TO ORDER INFORMATION, page 40.

M			MODELS / SWITCHING AND LOCK FUNCTION
---	--	--	--------------------------------------

LOCK	MODEL NO.		KEY PULL POSSIBLE				
CONFIGURATION (as viewed from key end)	NO. POLES	POS. 1	POS. 2	POS. 3	POS. 4	IN THESE POSITIONS	
POS.1 2 30° INDEXING	M116-AC SP	A-1	A-2	A-3	A-4	POS.1, POS.2,	
	M216-AC DP	A-1,B-7	A-2,B-8	A-3,B-9	A-4,B-10	POS.3, POS.4	
POS.1 2 30° INDEXING	M116-1U SP	A-1	A-2	A-3	A-4	POS.1	
	M216-1U DP	A-1,B-7	A-2,8-8	A-3,B-9	A-4,B-10	POS.4	

LEGEND: • = Detent positions (30° indexing).
• = Key pull possible in these positions. Stop positions.



TERMINAL NOS.

(BOTTOM VIEWS)

Terminal nos. marked on housing. For orientation see page 38.

KEYING



OPTION CODE NO.	NO. KEYS	KEY CODE STAMPED ON LOCK	ORDER KEYED ALIKE
2 (STD.) *	2	NO	YES
3	1	NO	YES
6	2	YES	YES
7	1	YES	YES

For more than one key code, master keying, replacement keys, or other special features, consult factory.

* Std. keying features include two nickel plated brass keys ringed together, no key code no. on face of lock, all switchlocks supplied with the same key code.

LOCK TYPE

B 5 tumbler lock, single-bitted keys.

MITHER

LOCK FINISHES

Stainless Facing (Std.)

Gloss Black

High Gloss Nickel Plated Facing







SHORTING / NON-SHORTING CONTACTS

N (Std.) Non-shorting contacts — break before make.

Shorting contacts - make before break.

S

Half-Inch Rotary Switchlocks

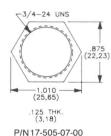
TERMINATIONS MITHTHERE C Z (Std.) DP SP DP

Terminals insert molded. All terminals present regardless of number of switch positions.

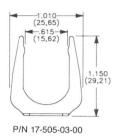
MITHERENER

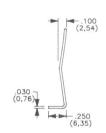
MOUNTING STYLES

N (Std.)



D CLIP





Panel mounting information, see page 38

CONTACT MATERIALS / RATINGS

Q MOVABLE CONTACT: Non-shorting — Brass, silver plated. Shorting — Zinc alloy, silver plated. STATIONARY CONTACTS & TERMINALS: Brass, silver plated. RATING: Switch - 250 mA @ 125 V AC or 28 V DC.

Carry - 6 AMPS continuous.

(Std. with all termination options)

MOVABLE CONTACT: Non-shorting — Brass, with gold plate over nickel plate over silver plate. Shorting — Zinc, alloy, with gold plate over nickel plate over silver plate.

STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

RATING: 0.4 VA max. @ 20 V AC or DC max. or Switch — 250 mA @ 125 V AC or 28 V DC.

Carry - 6 AMPS continuous.

Note: G contact material can be used where either dry circuit* or power conditions are encountered. However, when the dry circuit rating is exceeded, the gold plating is removed from the contact interface and the switch cannot then be used in dry circuits.

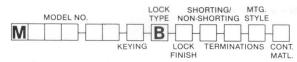
* Dry circuit = conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or

HOW TO ORDER

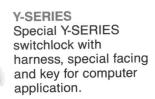
Complete the order number below by selecting the desired model no., keying, lock type, lock finish, shorting or non-shorting contacts, termination, mounting style and contact material options. Place the option codes in the appropriate boxes of the ordering format.

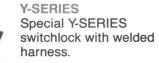
(Example: M216-1U-6-B-2-N-C-D-G).

2 keying option, B five tumbler lock, 2 lock finish with stainless steel facing, N non-shorting contacts, Z terminations, N mounting style with nut and Q contact material are supplied if no options are specified.



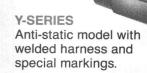








New 6 tumbler tubular camlocks and switchlocks-low cost, unique design.





NEW N-SERIES HIGH SECURITY SWITCHLOCKS WITH MEDECO LOCKS

A complete line of HIGH SECURITY SWITCHLOCKS, featuring the quality MEDECO lock. One thru four pole switching is available, with ratings from low level to 12 AMPS @ 125 V AC. Many models UL/CSA listed. Consult factory with your needs.





ROTARY • SLIDE • ROCKER
LEVER • PUSHBUTTON SWITCHES





A Series NED





models, consult factory.



ELECTRICAL LIFE: 15,000 make-and-break cycles at full load up to 300,000 detent operations

CONTACT RESISTANCE: Below 20 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level

OPERATING TEMPERATURE: - 30°C to 85°C. NOTE

MATERIALS

MODELS, p. 45.

HOUSING: Glass filled nylon, red. TOP PLATE & BUSHING: Glass filled nylon, gray. ACTUATOR: Glass filled nylon, gray. MOVABLE CONTACT: Coin silver, silver plated (Q cont. mat'l.). STATIONARY CONTACTS & TERMINALS:

Brass, silver plated (Q cont. mat'l.). HARDWARE: Nut-Zinc, nickel plated. Lockwasher- Steel, bright zinc plated. Stop Ring- Brass, nickel plated.

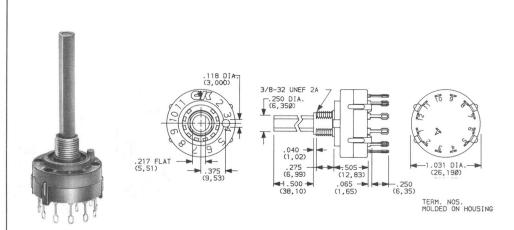
INDEXING: 30°, 45°, 90° avail., see

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific

INTRODUCTION

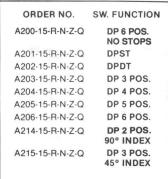
A selection of complete A SERIES ROTARY SWITCH order numbers is shown below and on page 44. To order alternate configurations, see available options on pages 45 and 46. Complete HOW TO ORDER information is on page 47. UL/CSA listed with all options when ordered with G or Q contact material.

ORDER NO.	SW. FUNCTION
A100-15-R-N-Z-Q	SP 12 POS. NO STOPS
A101-15-R-N-Z-Q	SPST
A102-15-R-N-Z-Q	SPDT
A103-15-R-N-Z-Q	SP 3 POS.
A104-15-R-N-Z-Q	SP 4 POS.
A105-15-R-N-Z-Q	SP 5 POS.
A106-15-R-N-Z-Q	SP 6 POS.
A107-15-R-N-Z-Q	SP 7 POS.
A108-15-R-N-Z-Q	SP 8 POS.
A109-15-R-N-Z-Q	SP 9 POS.
A110-15-R-N-Z-Q	SP 10 POS.
A111-15-R-N-Z-Q	SP 11 POS.
A112-15-R-N-Z-Q	SP 12 POS.
A114-15-R-N-Z-Q	SP 2 POS. 90° INDEX
A115-15-R-N-Z-Q	SP 3 POS. 45° INDEX
A124-15-R-N-Z-Q	SP 4 POS. 90° INDEX
A125-15-R-N-Z-Q	SP 8 POS. 45° INDEX
All models 30° in	dexing unless
otherwise noted.	

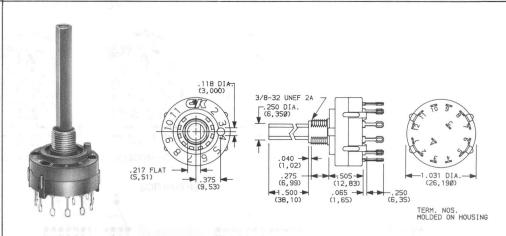


SP MODELS

MODEL SHOWN: A112-15-R-N-Z-Q



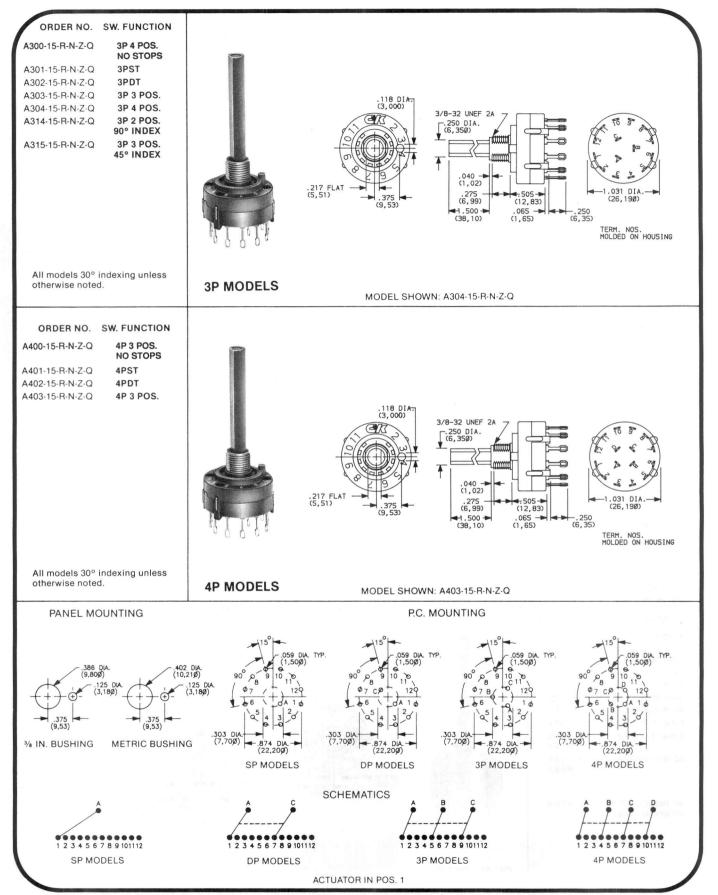
All models 30° indexing unless otherwise noted.



DP MODELS

MODEL SHOWN: A206-15-R-N-Z-Q





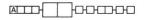


A SERIES OPTIONS

Switches different from those shown on pages 43 and 44 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 47.

MODELS A (DP models) (3P models) Model Model Terms. A,B,C, 1-12 A,B,C,2,6,10 A,B,C,1,2,5,6,9,10 A,B,C,1-3,5-7,9-11 A,B,C,1-12 A,B,C,1 (SP models) No. A200 Sw. Func. Terms. A,C, 1-12 No. A300 Sw. Func. Sw. Func. 6 pos.-No Stops 4 pos.-No Stops No. A100 Terms A,C,2,8 A,C,1,2,7,8 A,C,1-3,7-9 A201 A202 12 pos.-No stops ST A301 A101 A102 A,2* A,1,2* A302 DT A203 A303 3 pos. 3 pos. A,1,2* A,1-3* A,1-4* A,1-5* A,1-6* A,1-7 A,1-8 A,1-9 A,1-10 A,1-11 A, C, 1-3,7-9 A, C, 1-4,7-10 A, C, 1-5,7-11 A, C, 1-12 A, C, 1, 4, 7, 10 A, C, 1, 2, 4, 7, 8, 10 A103 A104 3 pos A204 4 pos. 5 pos. A304 4 pos. A205 A314 2 pos.-90° index 4 pos A105 A106 A206 6 pos. 3 pos.-45° index 2 pos.-90° index 6 pos 7 pos A214 3 pos.-45° index A107 A215 (4P models) A108 8 pos Model A109 No. A400 Sw. Func. *Note: Switches with C or MC terminations have A110 10 pos 3 pos.-NoStops all terms. additional terminal no. 9 as switch support only. A,B,C,D,2,5,8,11 A,B,C,D,1,2,4,5,7,8,10,11 A401 ST A112 12 pos This terminal is not connected electrically A402 2 pos.-90° index 3 pos.-45° index 4 pos.-90° index 8 pos.-45° index A, 1, 4* A, 1, 2, 4* A, 1, 4, 7, 10 A, 1, 2, 4, 5, 7, 8, 10, 11 A114 A403 3 pos. all terms. A115 A124 All models 30° indexing unless otherwise noted.

ACTUATORS











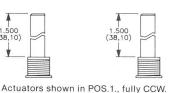










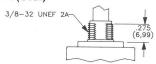


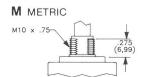




BUSHING

R (Std.)





SHORTING / NON-SHORTING CONTACTS

N (Std.) Non-shorting contacts- break before make.

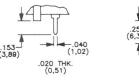
Shorting contacts- make before break.

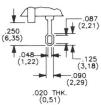
Note: S shorting contacts not avail. with A114, A124, A214, A314 models.

TERMINATIONS

C

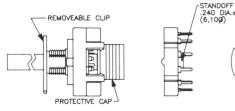






MC

MODULAR BASE FOR WAVE SOLDERING



Solder and clean switch base on P.C. board with other components, then snap on housing/actuator assembly. See page 47 for installation instructions.

CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

B MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate.

RATING: 0.4 VA max. @ 20 V AC or DC max. MOVABLE CONTACT: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Brass, silver plated.

RATING: Switch-2.5 AMPS @ 125 V AC or 28 V DC; 150 mA @ 250 V AC or DC (UL/CSA).

Carry- 5 AMPS continuous.

(Std. with all termination options)

G MOVABLE CONTACT: Coin silver, with gold plate over nickel plate over silver plate. STATIONARY CONTACTS & TERMINALS: Brass, with gold plate over nickel plate over silver plate.

RATING: 0.4 VA max. @ 20 V AC or DC max. or

Switch-2.5 AMPS @ 125 V AC or 28 V DC; 150 mA @ 250 V AC or DC (UL/CSA).

Carry- 5 AMPS continuous.

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.

SEALING

(None)

E

No seal

SPLASHPROOF BUSHING SEAL

Both E epoxy terminal seal and F splashproof bushing seal.

Std. with all termination options.

K



A Series



SETTING STOPS—A112 MODELS ONLY

The number of switch positions is adjustable on A112 models only by means of a stop ring provided with each switch. All other models: the number of positions is pre-set, stop ring is factory installed.

To set stops: turn shaft fully counter-clockwise and insert stop ring tab in desired hole. Install lockwasher and nut to retain stop ring, even where switch is P.C. mounted. For panel mounting, also install lockwasher on top of stop ring. Switch without stop ring has 12 positions.

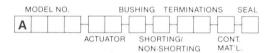
HOW TO ORDER

Complete order numbers for selected A-SERIES models are provided on pages 43 and 44. To order alternate configuration, select desired model no., actuator, bushing, shorting or non-shorting contacts, termination, contact material and (if desired) sealing options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: A 1 0 3 4 2 M N C B).

For sealing options, specify option code in SEAL box, for no seal, leave box empty, 15 actuator, R bushing, N non-shorting contacts, Z terminations, Q contact material and no seal are supplied if no options are specified. One mounting nut, lockwasher and stop ring are supplied standard.

UL/CSA listed with all options when ordered with G or Q contact material.

Note: Number of switch positions factory pre-set, all models except A112. See SETTING STOPS for installation instructions.



AVAILABLE HARDWARE

Nuts, lockwashers and stop rings are available separately. To order, write part nos. and descriptions in word form.

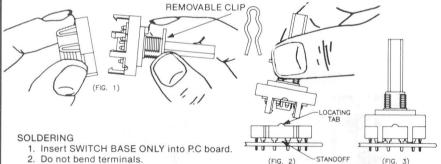
P/N **DESCRIPTION**

4727-04-201 Nut, 3/8-32 bushing (R bushing option)

4951-00-201 Nut, 10mm metric bushing (M bushing option)

4728-00-202 Lockwasher 4729-00-201 Stop Ring





- 3. Wave soldering recommended at 500°F solder temp. Hand solder at 500°F, 10 sec. max./terminal.

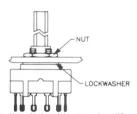
CLEANING

- 1. Flux clean using vapor degreaser and forced rinse or triple bath method.
- 2. Do not allow switch base to 'trap' fluids.
- 3. Freon TMC, TF or Methylene Chloride give excellent results.

SWITCH ASSEMBLY

- 1. Hold housing/shaft assembly by housing. Remove protective cap by squeezing tabs and discard. (Fig. 1)
- 2. DO NOT PUSH ON SWITCH SHAFT. Detent mechanism will come apart.
- Holding switch housing, align locating tab on base with notch on housing, and engage 4 housing latches in slots on base. (Fig. 2)
- Push firmly on housing until latches snap in place.
- 5. Remove clip from shaft and discard. Assembly is complete. (Fig. 3)

PANEL MOUNTING

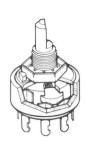


Install switch with stop ring (if used) and lockwasher back of panel.

Tighten hex nut from front of

P.C. mounted switches: use hex nut and lockwasher to hold stop ring in place.

Power ROTA-SLIDE® Rotary Switches



SPECIFICATIONS

CONTACT RATING: 12 AMPS @ 125 VAC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

INDEXING: 45°—one contact models, 8 pos. max.; two contact models, 4 pos. max.

MATERIALS

HOUSING: 6/6 nvlon (UL 94V-2), black, TOP PLATE & BUSHING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: 6/6 nylon (UL 94V-2), natural. CONTACTS: Copper, silver plated (Q cont. mat'l.).

TERMINALS: Copper, silver plated (Q cont. mat'l.).

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Steel, zinc plated.

NOTE Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

A selection of complete H SERIES POWER ROTA-SLIDE ROTARY SWITCH order numbers is shown below. To order alternate configuration, see available options on page 49. Complete HOW TO ORDER information is also on page 49.

ORDER NO.	SW. FUNCTION
(one conta	act models)
H100-07-RR-05-0	2 8 POS.
	No Stops
H101-07-RR-05-0	Q ST
H102-07-RR-05-0	Q DT
H103-07-RR-05-0	2 3 POS.
H104-07-RR-05-0	Q 4 POS.
H105-07-RR-05-0	2 5 POS .

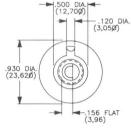
6 POS.

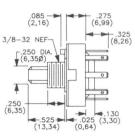
7 POS. H107-07-RR-05-Q H108-07-RR-05-Q 8 POS. (two contact models) H200-07-RR-05-Q 4 POS.

H106-07-RR-05-Q

No Stops H201-07-RR-05-Q H202-07-RR-05-Q DT H203-07-RR-05-Q 3 POS. H204-07-RR-05-Q 4 POS.







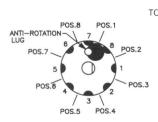


MOUNTING NUT P/N 17-500-01-00

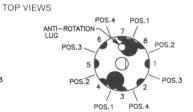
MODEL SHOWN: H204-07-RR-05-Q

SCHEMATICS

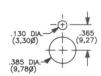
PANEL MOUNTING



ONE CONTACT MODELS



TWO CONTACT MODELS



Break before make contacts. Term, nos, molded on bottom of housing. Actuators and contacts shown in pos. 1.

No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts



Power ROTA-SLIDE® Rotary Switches

H SERIES OPTIONS

Switches different from those shown page 48 can be ordered by selecting desired options below. See HOW TO ORDER information.

Н HOITHRIRH THO

MODELS

(One	contact	models)
10		,

(One contact models)					(Two contact n	nodels)	
Model	No. Sw. Func.	Terms.	Model No.	Sw. Func.	Terms.	Model No.	Sw. Func.	Terms.
H100	8 pos.—no	stops All terms.	H105	5 pos.	7-8-1-2-3-4	H200	4 pos.—no s	tops All terms.
H101	ST	8-1	H106	6 pos.	7-8-1-2-3-4-5	H201	ST	8-1,4-5
H102	DT	7-8-1	H107	7 pos.	All terms.	H202	DT	7-8-1,3-4-5
H103	3 pos.	7-8-1-2	H108	8 pos.	All terms.	H203	3 pos.	All terms.
H104	4 pos.	7-8-1-2-3				H204	4 pos.	All terms.

RR

HILLY 0 7 REPUTA

ACTUATOR

MOUNTING STYLE

07





Panel mount, with 3/8"-32 threaded bushing. Mounting nut included.

Mounting nut P/N 17-500-01-00.

HLLLHOITHRIR

TERMINATIONS

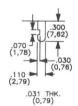
HIIIHOITHREHIIHQ

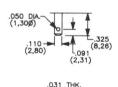
HILLING R R LING

CONTACT MATERIALS

01

05





CONTACT / TERMINAL MATERIALS

Q CONTACTS & TERMINALS: Copper, silver plated. RATING: 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA).

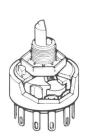
HOW TO ORDER

Complete order numbers for selected H-SERIES models are provided on page 48. To order alternate configuration, select desired model no., actuator, mounting style, termination and contact material options. Place the option codes in the appropriate boxes of the ordering format. (Example: H201-07-RR-01-0). One mounting nut is supplied standard, not installed. UL/CSA listed.

Number of positions or stops pre-set at factory.



ROTA-SLIDE® Rotary Switches



SPECIFICATIONS

CONTACT RATING: 5 AMPS @ 125 V AC or 28 V DC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

INDEXING: 36°—one contact models, 10 pos. max.; two contact models, 5 pos. max.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black. TOP PLATE & BUSHING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: 6/6 nylon (UL 94V-2), natural. CONTACTS: Copper, silver plated (Q cont. mat'l.)

TERMINALS: Copper, silver plated (Q cont.

CONTACT SPRING: Music wire or stainless steel. MOUNTING NUT: Steel, zinc plated.

NOTE

U.S. Pat No. 4,258,237

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

A selection of complete R SERIES ROTA-SLIDE ROTARY SWITCH order numbers is shown below and on page 51. To order alternate configuration, see available options on pages 51 thru 53. Complete HOW TO ORDER information is on page 53. UL/CSA

		ordered with G or Q contact mate		ons an incommunion to on page	3 00. 32 ,007
	SW. FUNCTION				
(one contac R100-07-RR-03-Q	t models) 10 POS.				
H100-07-HH-03-Q	No Stops				
R101-07-RR-03-Q	ST		920 DIA.	.085275	
R102-07-RR-03-Q	DT	#2%	(23,37Ø)	(2,16) (6,99)	
R103-07-RR-03-Q	3 POS.		.120 DIA. (3,05Ø)	THD. BUSHING (7,62)	
R104-07-RR-03-Q	4 POS.		(3,03)	r.250 DIA. 4	9 2 0
R105-07-RR-03-Q	5 POS.			▼(6,35ø)	
R106-07-RR-03-Q	6 POS.				$\left(\left\langle n \right\rangle \left(\left(\right) \right\rangle \right) = 0$
R107-07-RR-03-Q	7 POS.			A	
R108-07-RR-03-Q	8 POS.		.156 FLAT	.250	10
R109-07-RR-03-Q	9 POS.	0 0 0	(3,96)	(6,35) -,750 -,025 (3,30)	.700 DIA. (17,789)
			- ► .500 DIA. ► (12,70Ø)	(19,05) (0,64)	1
(two contac					TERM. NOS. MOLDED ON HOUSING
R200-07-RR-03-Q	5 POS.		MOUNTING NUT P/N 1	7 500 01 00	
R201-07-RR-03-Q	No Stops ST		MODIVING NOT F/N	17-300-01-00	
R202-07-RR-03-Q	DT				
R203-07-RR-03-Q	3 POS.				
R204-07-RR-03-Q	4 POS.				
R205-07-RR-03-Q	5 POS.		MODEL SHOWN: F	R109-07-RR-03-Q	
		+		0.0000000000000000000000000000000000000	
	SW. FUNCTION				
(one contac	10 POS.				
R100-07-RN-02-Q	No Stops				
R101-07-RN-02-Q	ST				
R102-07-RN-02-Q	DT				
R103-07-RN-02-Q	3 POS.				
R104-07-RN-02-Q	4 POS.	5-1	920 DIA.—— (23,37Ø)		
R105-07-RN-02-Q	5 POS.		(23,370)	.275 .280 (6,99) (7,11)	
R106-07-RN-02-Q	6 POS.			.250 DIA. (6,35ø)	9 5 05
R107-07-RN-02-Q	7 POS.			(6,35Ø)	0
R108-07-RN-02-Q	8 POS.				$\left(\int_{\Omega} \left(\left(\begin{array}{c} \\ \end{array} \right) \right)_{\Omega} \right)$
R109-07-RN-02-Q	9 POS.	T- INE		A	
			.156 FLAT		10
(two contac	t models)	4 4 4	.700 DIA. (3,96)	.750025 (3,30)	.700 DIA. (17,78Ø)
R200-07-RN-02-Q	5 POS.		(17,780)	.750 .025 (3,30) (19,05) (0,64)	
	No Stops				TERM. NOS. MOLDED ON HOUSING
R201-07-RN-02-Q	ST				
R202-07-RN-02-Q	DT				9
R203-07-RN-02-Q	3 POS.				
R204-07-RN-02-Q	4 POS.				

5 POS.

R205-07-RN-02-Q

MODEL SHOWN: R109-07-RN-02-Q

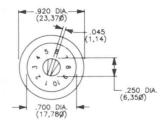


ORDER NO.	SW. FUNCTION
(one cont	act models)
R100-15-RS-02-Q	10 POS.
	No Stops
R101-15-RS-02-Q	ST
R102-15-RS-02-Q	DT
R103-15-RS-02-Q	3 POS.
R104-15-RS-02-Q	4 POS.
R105-15-RS-02-Q	5 POS.
R106-15-RS-02-Q	6 POS.
R107-15-RS-02-Q	7 POS.
R108-15-RS-02-Q	8 POS.
R109-15-RS-02-Q	9 POS.
(two conf	act models)
D000 15 D0 00 0	5 500

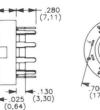
R200-15-RS-02-Q 5 POS. No Stops R201-15-RS-02-Q ST R202-15-RS-02-Q DT R203-15-RS-02-Q 3 POS. R204-15-RS-02-Q 4 POS. R205-15-RS-02-Q 5 POS.

ANTI-ROTATION











TERM. NOS. MOLDED ON HOUSING

MODEL SHOWN: R109-15-RS-02-Q

SCHEMATICS

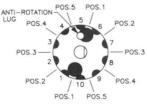
TOP VIEWS

POS.1 POS.10

Break before make contacts. Term. nos. molded on bottom of housing.

ONE CONTACT MODELS

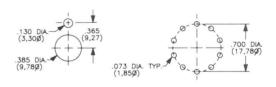
Actuators and contacts shown in pos.1.



TWO CONTACT MODELS

PANEL MOUNTING

P.C. MOUNTING



No common terminal is present. Switching function is provided by movable contacts shorting adjacent pairs of stationary contacts.

R SERIES OPTIONS

Switches different from those shown above and on page 50 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 53.

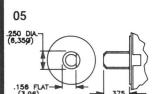
R

MODELS

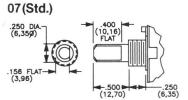
(One contact models)						((Two contact models)		
Model No.	Sw. Func.	Terms	Model No.	Sw. Func.	Terms.	Model No.	Sw. Func.	Terms.	
R100	10 pos.	All terms.	R106	6 pos.	10-1-2-3-4-5-6	R200	5 pos.	All terms.	
	no stops		R107	7 pos.	10-1-2-3-4-5-6-7	4.	no stops		
R101	ST	1-2	R108	8 pos.	10-1-2-3-4-5-6-7-8	R201	ST	1-2,6-7	
R102	DT	10-1-2	R109	9 pos.	All terms.	R202	DT	10-1-2,5-6-7	
R103	3 pos.	10-1-2-3				R203	3 pos.	10-1-2-3,5-6-7-8	
R104	4 pos.	10-1-2-3-4				R204	4 pos.	All terms.	
R105	5 pos.	10-1-2-3-4-5				R205	5 pos.	All terms.	

ممصصر

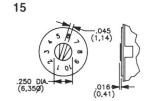
ACTUATORS



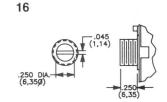
Shown with RN mounting style.



Shown with RR mounting style. For mounting styles without bushing, add .250 (6,35) to actuator length.



Arrow on actuator marked red, std. Shown with RS mounting style.



Shown with RR mounting style. For mounting styles without bushing, add .250 (6,35) to actuator length.

8 RIII

MOUNTING STYLES

RN



P.C. mount, no bushing.

RR



Panel mount, with 3/8"-32 threaded bushing. Mounting nut included.

RS WITH POSITION NOS.





P.C. mount, no bushing, position numbers molded std. Shown with 15 actuator.

TERMINATIONS

01



02



03





CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

- B CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 5 AMPS @ 125 V AC or 28 V DC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).
- CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 5 AMPS @ 125 V AC or 28 V DC; 2.5 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.

SEALING

(None)

No seal

Std. with all termination options.

E

HOW TO ORDER

Complete order numbers for selected R-SERIES models are provided on pages 50 and 51. To order alternate configuration, select desired model no., actuator, mounting style, termination and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: R202 15 RN 02 G).

For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. 07 actuator and Q contact material are supplied if no options are specified. One mounting nut is supplied standard, where applicable, not installed. UL/CSA listed with all options when ordered with G or Q contact material.

Note:

Number of positions or stops pre-set at factory.



SPECIFICATIONS

models, consult factory.

CONTACT RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load

MECHANICAL LIFE: 100,000 cycles min.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated

INSULATION RESISTANCE: 109 ohms min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level. INDEXING: 45° or 90° - one contact models, 8 pos. max.; two contact models, 4 pos. max.

Models with common term. - 90°, 4 pos. max.

UL/CSA listed with all options when ordered with G or Q contact material. 01 terminations, UL listed only.

NOTE

U.S. Pat. No. 4,258,237

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2). TOP PLATE & BUSHING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: 6/6 nylon (UL 94V-2), natural

CONTACTS: Copper, silver plated (Q cont. mat'l.).

TERMINALS: Copper, silver plated (Q cont. mat'l.).

CONTACT SPRING: Music wire or stainless steel.

MOUNTING NUT: Brass, nickel plated.

INTRODUCTION A selection of complete F SERIES MINIATURE ROTA-SLIDE ROTARY SWITCH order numbers is shown below and on page 55.

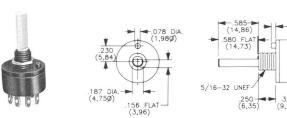
To order alternate configuration, see available options on pages 56 and 57. Complete HOW TO ORDER information is on page 57.

Specifications and Materials listed above are general specifications for switches with standard

options. See option sections for additional information. Specifications available for specific

SW. FUNCTION
ct models)
8 POS.
No Stops
ST
DT
3 POS.
4 POS.
5 POS.
6 POS.
7 POS.
8 POS.
ct models)
4 POS.
No Stops
ST
DT
3 POS.
4 POS.

All above models have 45° indexina



MOUNTING NUT P/N 17-502-02-00



TERM. NOS. MOLDED ON HOUSING

45° INDEXING

MODEL SHOWN: F100-08-RS-03-Q

ORDER NO. SW. FUNCTION

(one contact models)

FA01-08-RS-03-Q DT

FA05-08-RS-03-Q 3 POS.

FA55-08-RS-03-Q 4 POS.

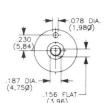
No Stops

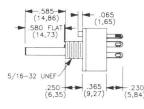
(two contact models)

FB11-08-RS-03-Q

All above models have 90° indexing.







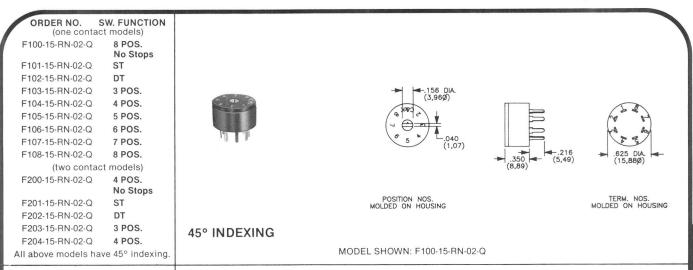


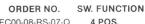
MOUNTING NUT P/N 17-502-02-00

90° INDEXING

MODEL SHOWN: FA01-08-RS-03-Q







FC00-08-RS-07-Q

No Stops

FC02-08-RS-07-Q

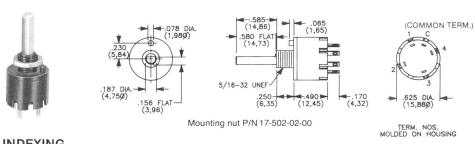
FC03-08-RS-07-Q

DT 3 POS.

FC04-08-RS-07-Q

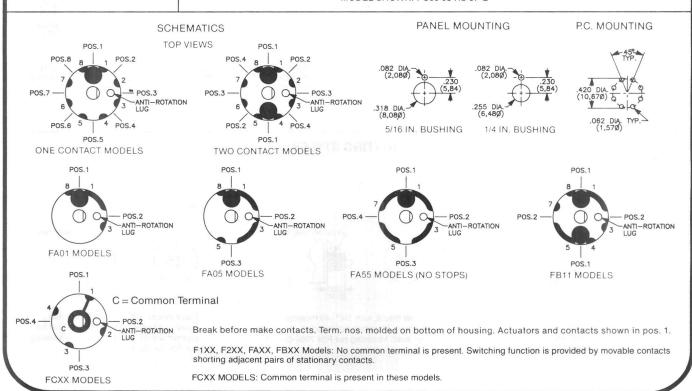
4 POS.

All above models have 90° indexing with a common terminal.



90° INDEXING WITH COMMON

MODEL SHOWN: FC00-08-RS-07-Q



F SERIES OPTIONS

Switches different from those shown on pages 54 and 55 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 57.

F

MODELS

MODELS WITH 45° INDEXING

(One contact mode	els)	(Two contact mode	els)
Model No.	Sw. Func.	Terms.	Model No.	Sw. Func.	Terms.
F100	8 posno stops	All terms.	F200	4 posno stops	All terms.
F101	ST	1-2*	F201	ST	1-2,5-6
F102	DT	8-1-2*	F202	DT	8-1-2,4-5-6
F103	3 pos.	8-1-2-3*	F203	3 pos.	All terms.
F104	4 pos.	8-1-2-3-4	F204	4 pos.	All terms.
F105	5 pos.	8-1-2-3-4-5			
F106	6 pos.	8-1-2-3-4-5-6			
F107	7 pos.	All terms.			
F108	8 pos.	All terms.			

^{*} Switches with 02 and 12 P.C. Terminations have additional terminal no. 5 as switch support only. This terminal is not connected electrically inside switch.

MODELS WITH 90° INDEXING

(One contact models) Model No. Sw. Func. Terms. DT 8-3-1 8-1-3-5 3 pos.

> 4 pos.—no stops (Two contact models)

Model No. Sw. Func. Terms. FB11 8-1-3,4-5-7

SP4 pos.

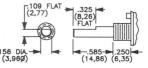
(SP Models with common term.)

Model No. Sw. Func. Terms. FC00 SP4 pos. -- no stops C-1, C-2, C-3, C-4 SPDT FC02 C-1.C-2 FC03 SP3 pos. C-1, C-2, C-3

FIII-

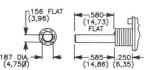
ACTUATORS

07



Shown with RR mounting style; not avail. with RS mounting





Must be ordered with RS mounting style.

15

FA01

FA05

FA55

FC04

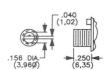


Shown with RN mounting style; not avail. with RS mounting style or FCXX models.

16

7-1-3-5

C-1, C-2, C-3, C-4



Shown with RR mounting style; not avail. with RS mounting style.

MOUNTING STYLES

RN



P.C. mount, no bushing, position numbers molded std. Shown with 15 actuator, not avail. with 08 actuator or FCXX models.

RR



40 UNS THD.

Panel mount, with 1/4"-40 threaded bushing. Mounting nut included. 08 actuator not avail. Mounting nut P/N 7002-01-201.

RS



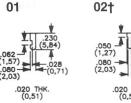
5/16-32 UNEF THD.

Panel mount, with 5/16"-32 threaded bushing. Mounting nut included. Must be ordered with 08 actuator option. Mounting nut P/N 17-502-02-00.



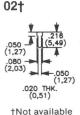
TERMINATIONS



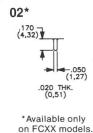


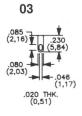
01 terminations,

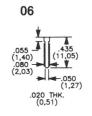
UL listed only.

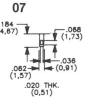


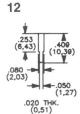
on FCXX models.











AVAILABLE OPTION COMBINATIONS

		MODELS	
TERMINATIONS	F1XX, F2XX	FAXX, FBXX	FCXX
01	•	•	
02	•	•	•
03	•	•	
06	•		
07			•
12	•		

INDICATES AVAILABLE OPTION COMBINATION

CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

- CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
- CONTACTS & TERMINALS: Copper, with gold plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3. 01 terminations UL listed, all other termination options UL/CSA listed.

SEALING

E

Not available on FCXX models.

(None)

No seal

Std. with all termination options

HOW TO ORDER

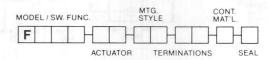
Complete order numbers for selected F-SERIES models are provided on pages 54 and 55. To order alternate configuration, select desired model no., actuator, mounting style, termination and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: F100-15-RN-12-B-).

For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. Q contact material is supplied if no option is specified. One mounting nut is supplied standard, where applicable, not installed.

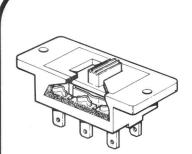
UL/CSA listed with all options when ordered with G or Q contact material. Note: 01 terminations, UL listed only.

Note:

Number of positions or stops pre-set at factory. F100, F200, FA55, and FC00 models have full 360° rotation with no stops.







SPECIFICATIONS

CONTACT RATING: 10.1 AMPS @ 125 V AC or 28 V DC; 5 AMPS @ 250 V AC (UL/CSA).

2.0 (0.5) AMPS @ 250 V AC, T85 (VDE). ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10° ohms min.
DIELECTRIC STRENGTH: 1,000 V RMS min.
@ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL94V-2), black. TOP PLATE: 6/6 nylon (UL 94V-2), black. ACTUATOR: Glass filled polyester (UL 94V-0), 01, 02 styles black std.; 12, 13, 14 styles red std.

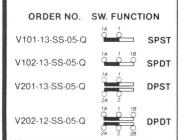
CONTACTS: Copper, silver plated. TERMINALS: Copper, silver plated. CONTACT SPRING: Music wire or stainless steel.

NOTE

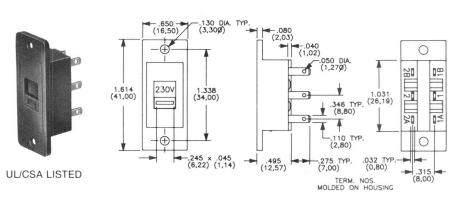
Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION TO UL/CSA SWITCHES

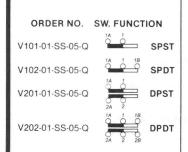
A selection of complete UL/CSA listed V SERIES POWER & LINE VOLTAGE SELECT SLIDE SWITCH order numbers is shown below and on page 59. To order alternate configuration, see available options on pages 60 and 61. Complete HOW TO ORDER information is on page 61. All models UL/CSA listed with all options. For VDE models, see pages 59 and 60.

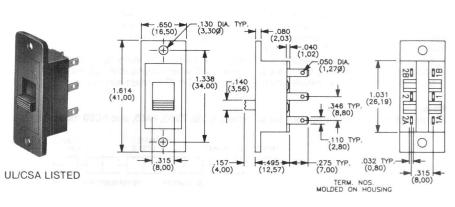


Note actuator voltage markings std. on DPDT models only.



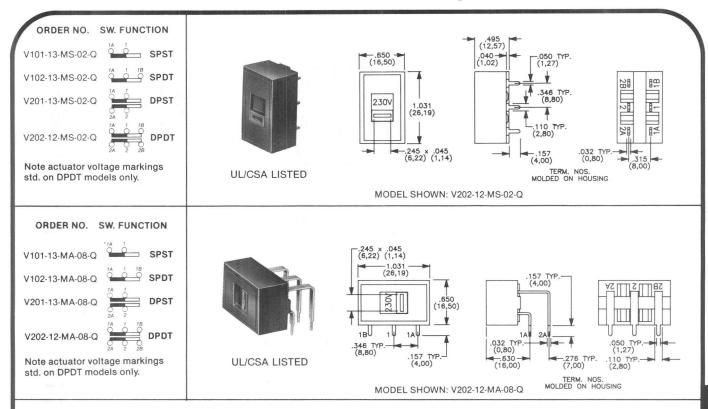
MODEL SHOWN: V202-12-SS-05-Q





MODEL SHOWN: V202-01-SS-05-Q

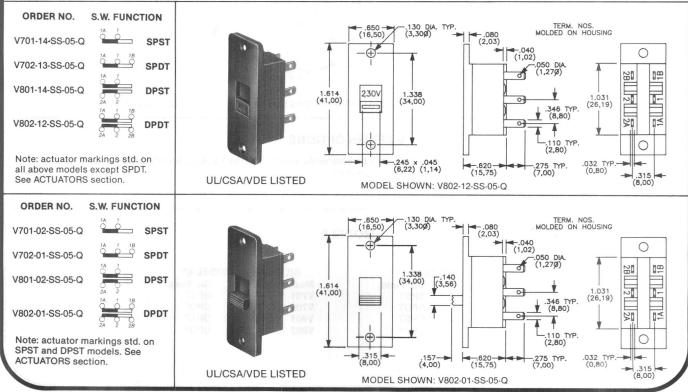


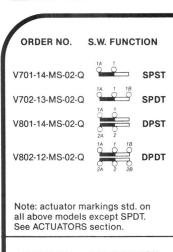


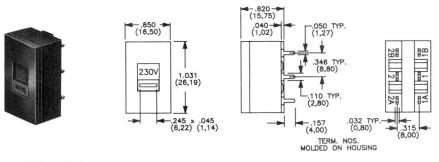
INTRODUCTION TO UL/CSA/VDE SWITCHES

A selection of complete UL/CSA/VDE listed V SERIES POWER & LINE VOLTAGE SELECT SLIDE SWITCH order numbers is shown below and on page 60. To order alternate configuration, see available options on pages 60 and 61. Complete HOW TO ORDER information is on page 61.

Although electrically and mechanically identical to UL/CSA listed switches, VDE listing requires a thicker top plate which increases the overall height of the switch housing by .125 (3, 18).

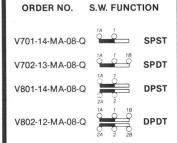






UL/CSA/VDE LISTED

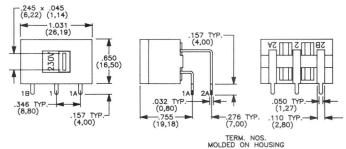
MODEL SHOWN: V802-12-MS-02-Q







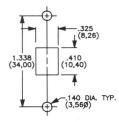
UL/CSA/VDE LISTED

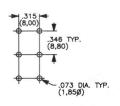


P.C. MOUNTING

MODEL SHOWN: V802-12-MA-08-Q







ALL TERMINATIONS EXC. 08

.346 TYP. (8,80) .073 DIA. TYP. (1,85Ø)

08 TERMINATIONS

V SERIES OPTIONS

Switches different from those shown on pages 58 thru 60 can be ordered by selecting desired options from the available options below and on page 61. See HOW TO ORDER information on page 61.

V

MODELS

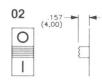
	(UL/CSA	MODELS)*	(UL/CSA/VDE	MODELS)*
Mode	l No.	Sw. Func.	Model No.	Sw. Func.
V101		SPST	V701	SPST
V102		SPDT	V702	SPDT
V201		DPST	V801	DPST
V202		DPDT	V802	DPDT

*See CONTACT MATERIALS section for complete contact ratings and agency listings.



на на на 01

Act, color black,

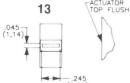


Act, color black with white markings std.

ACTUATORS



Act color red with white 115V-230V markings std.



-.245 (6,22) Act. color red



Act. color red with white markings std.

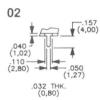
Voltage markings on actuator std. on all V202, V802 models with screwdriver slot actuators. On-Off markings on actuator std. on all V701, V801 models

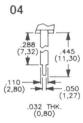
р-ш-

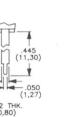
MOUNTING STYLES

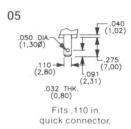
- MA P.C. mount, side actuated. (Available with 08 terminations only.)
- MS P.C. mount, top actuated. (08 termination not avail.)
- Panel mount with mounting ears, side actuated. (Available with 08 terminations only.)
- Panel mount with mounting ears, top actuated. (08 termination not avail.)

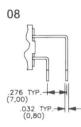
TERMINATIONS

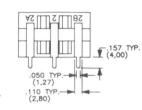












\mathbb{Q}

CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

CONTACTS & TERMINALS: Copper, silver plated **RATINGS:**

V101, V102, V201, V202 MODELS:

10.1 AMPS @ 125 V AC or 28 V DC; 5 AMPS @ 250 V AC (UL/CSA).

V701, V702, V801, V802 MODELS:

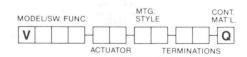
10.1 AMPS @ 125 V AC or 28 V DC; 5 AMPS @ 250 V AC (UL/CSA).

2.0 (0.5) AMPS @ 250 V AC, T85 (VDE).

HOW TO ORDER

Complete order numbers for selected V-SERIES models are provided on page 58 thru 60. To order alternate configuration, select desired model no., actuator, mounting style, termination, and contact material options. Place the option codes in the appropriate boxes of the ordering format. (Example: \(\frac{\frac{1}{2} \cdot 01}{\text{-01}} \cdot \frac{\mathbb{MS}}{\text{-02}} \cdot 0).

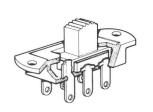
V101, V102, V20, and V202 models are UL/CSA listed with all options. V701, V702, V801, and V802 models are UL/CSA/VDE listed with all options.



Splashcap available for P.C. mounted V-SERIES switches to provide splash protection during soldering and cleaning processes. See page 93.







SPECIFICATIONS

CONTACT RATING:

S1XX, S2XX MODELS: 6 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S5XX, S6XX MODELS: 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA) S7XX, S8XX MODELS: 15 AMPS @ 125

V AC or 28 V DC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black. TOP PLATE: 6/6 nylon (UL 94V-2), black. ACTUATOR: 6/6 nylon (UL 94V-2), black std. CONTACTS: Copper, silver plated (Q cont. mat'l.)

TERMINALS: Copper, silver plated (Q cont. mat'l)

CONTACT SPRING: Music wire or stainless

NOTE

U.S. Pat. No. 4,258,237

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

A selection of complete S SERIES SLIDE SWITCH order numbers is shown below thru page 64. To order alternate configuration, see available options on pages 65 thru 67. Complete HOW TO ORDER information is on page 67. UL/CSA listed with all options when ordered with G or Q contact material.

ORDER NO. SW. FUNCTION (15 AMP MODELS*) S701-C2-1-S2-07-Q SPST S702-C2-1-S2-07-Q SPDT S711-C2-2-S2-07-Q S712-C2-2-S2-07-Q SPDT S801-C2-1-S2-07-Q DPST S802-C2-1-S2-07-Q DPDT (Indicates Momentary) *See SPECIFICATIONS for

complete contact ratings.

NEW 15 AMP RATING 1.240 (31,50)

15 AMP SNAP-IN MODELS

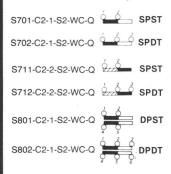
TERM. NOS. FOR REFERENCE ONLY

PAT. PENDING

MODEL SHOWN: S802-C2-1-S2-07-Q

See page 65 for mtg. info.

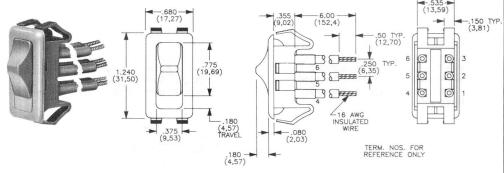
ORDER NO. SW. FUNCTION (15 AMP MODELS*)



(Indicates Momentary)

*See SPECIFICATIONS for complete contact ratings.

15 AMP RATING



15 AMP SNAP-IN MODELS

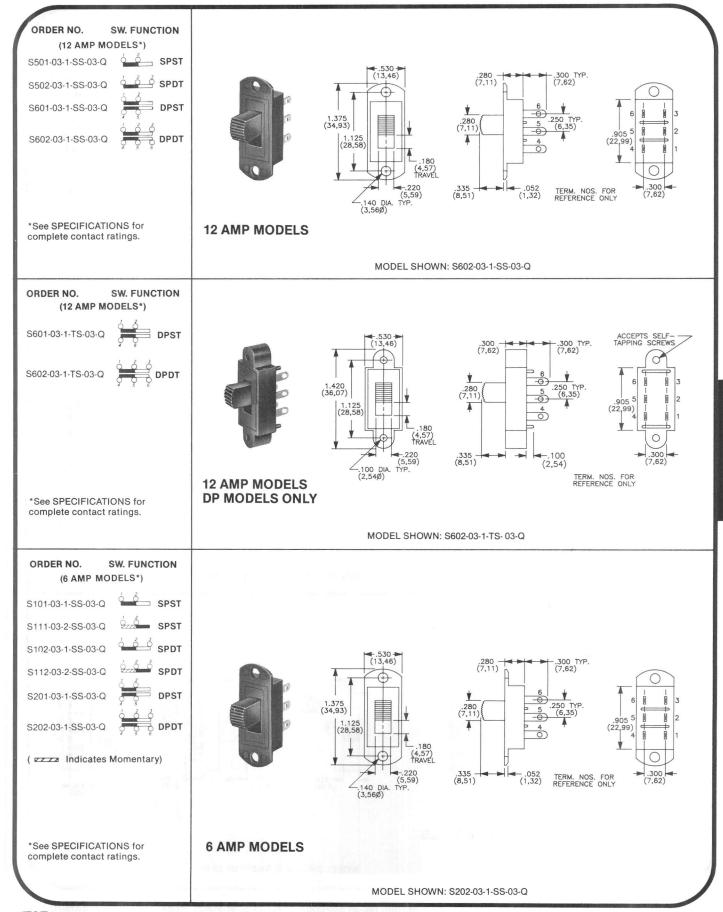
See page 65 for mtg. info

PAT. PENDING

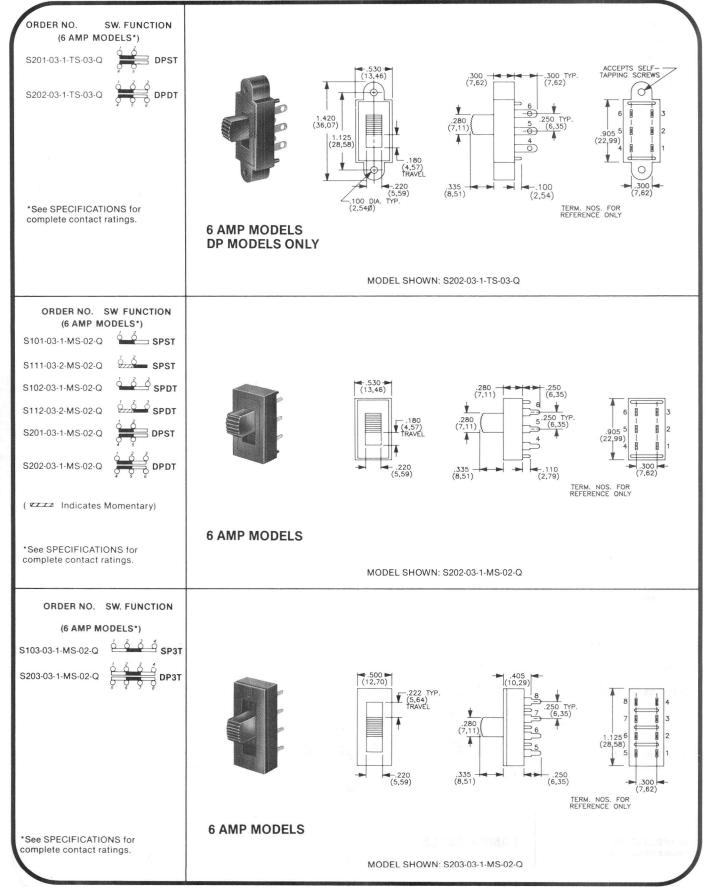
MODEL SHOWN: S802-C2-1-S2-WC-Q





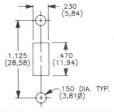




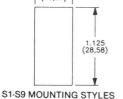






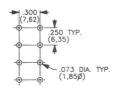


(28.58)



.073 DIA. (1,85Ø)

P.C. MOUNTING



SS, TS, MOUNTING STYLE

Panel thickness: .020 (0,51) to .200 (5,08).

Model No.

S SERIES OPTIONS

Switches different from those shown on pages 62 thru 64 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 67.

S ممصصصص

(6 AMP MODELS*)

Model No. \$101 \$111 \$112 \$102 \$103 \$201 \$202 \$203	Sw. Func. SPST SPST-Momentary SPDT SPDT-Momentary SP3T DPST DPDT DP3T
	2. 0.

MODELS

(12 AMP MODELS")
Sw. Func.
SPST
SPDT
SPST—Momentary
SPDT—Momentary

S501 S502 S511 S512 S601 DPST S602 DPDT (15 AMP MODELS*)

Model No.	Sw. Func.
S701	SPST
S702	SPDT
S711	SPST-Momentary
S712	SPDT-Momentary
S801	DPST
SRD2	DPDT

Note: 15 AMP models available with S1-S9 mounting styles only.

ممحصصم S

ACTUATORS



03 (std.)

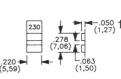


04



OPTION





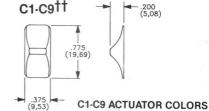
12



White 115-230 markings std.

Without markings.

13



CODE	COLORS
C1	White
C2	Black (Std.)
C3	Red
C4	Orange
C5	Yellow
C6	Green
C7	Blue
C8	Brown
C9	Gray

CAP

Select actuator cap color from chart. Place option codes in appropriate boxes of ordering format. Finish: matte. If no color is specified, black will be supplied. Colored actuator caps may also be ordered separately and user installed. See page 67.

All actuators: black std.; other colors avail., consult factory. 03-10 actuators: alternate heights avail., consult factory. 12-13 actuators: Avail. with DPST, DPDT models only.

Subtract .090 (2,29) on models with S1-S9 mounting style.

†† Avail. only with S1-S9 mounting style.

DETENT

With Detent

Std. with S101, S102, S103, S201, S202, S203, S501, S502, S601, S602, S701, S702, S801, S802 models.

Without Detent

Std. with S111, S112, S511, S512, S711, S712 models.

^{*}See CONTACT MATERIALS for complete contact ratings. See SW. FUNCTION schematics for terminal nos



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MOUNTING STYLES

TERMINATIONS

- MS P.C. mount. (Recommended with 02 or 04 terminations) Not available with S7XX or S8XX models.
- SS Panel mount with mounting ears. (Not available with SXX3 3 position or S7XX, S8XX models.)
- TS Panel mount with integral mounting ears, accept self-tapping screws. (Not available with SXX3 3 position or S7XX, S8XX models.)
- S1-S9 Snap-In mounting style. (Not avail. with SXX3 3 position models.) Select top plate color option from chart. Black std. Avail. with 07, 57. WC and WR terminations only. Available with S7XX, S8XX models only.

HOUSING TOP PLATE COLOR

Select top plate color from chart. Place option codes in appropriate boxes of ordering format. Finish of housing top plate: matte. If no color is specified, black will be supplied.

	TOP PLATE
CODE	COLOR
S1	White
S2	Black (Std.)
S3	Red
S4	Orange
S5	Yellow
S6	Green
S7	Blue
S8	Brown
S9	Gray

6













02 and 04 terminations recommended with MS mounting style.

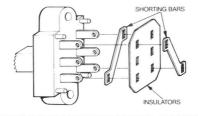
Recommended with DP models only.

18 AWG wire for S1XX and S2XX models. 16 AWG wire for all other models. Black wire std., other colors and lengths avail.. consult factory.

Note: all terminals on S1XX, S2XX models .020 (0,51) thk.; all terminals on S5XX, S6XX, S7XX, S8XX models .031 (0,79) thk.; 07, 57 terminals avail. on S5XX, S6XX, S7XX, S8XX models only. S1-S9 mounting style avail. with 07, 57, WC and WR terminations only.

REVERSING SWITCH OPTION

DPST and DPDT models only are available with two diagonal terminal jumper strips, providing reversing capability. Select desired termination option from chart.

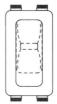


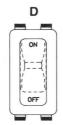
REVERSING SWITCH TERMINATION OPTIONS			
OPTION CODE	DESCRIPTION		
51	01 terms. + reversing feature		
52	02 terms. + reversing feature		
53	03 terms. + reversing feature		
54	04 terms. + reversing feature		
57	07 terms. + reversing feature		
WR	WC terms. + reversing feature		

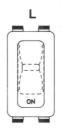
TOP PLATE MARKINGS

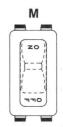
Available with S1-S9 mounting style only.

(NONE) (STD.)











D, L M MARKING OPTIONS: Marking color white std. for all top plate colors (except white and yellow top plates: marking color black std.).

N MARKING OPTION: Marking color red std., all top plate colors.

Other marking colors avail., consult factory.



CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

B CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.

Q CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: S1XX, S2XX MODELS: 6 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S5XX, S6XX MODELS: 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA). S7XX, S8XX MODELS: 15 AMPS @ 125 V AC or 28 V DC (UL/CSA).

G CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

RATING: S1XX, S2XX MODELS: 0.4 VA max. @ 20 V AC or DC max. or 6 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA)

S5XX, S6XX MODELS: 0.4 VA max. @ 20 V AC or DC max. or 12 AMPS @ 125 V AC or 28 V DC; 6 AMPS @ 250 V AC; 1 AMP @ 125 V DC (UL/CSA)

S7XX, S8XX MODELS: 0.4 VA max. @ 20 V AC or DC max. or 15 AMPS @ 125 V AC or 28 V DC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.

SEALING

(None)

No seal

Std. with all termination options.



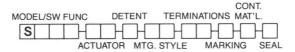
Not avail. with reversing switch termination options.

HOW TO ORDER

Complete order numbers for selected S-SERIES models are provided on pages 62 thru 64. To order alternate configuration, select desired model no., actuator, detent, mounting style, termination, top plate markings (with S1-S9 mtg. style only) and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled (Example: \$202-04-1-TS-53-Q-).

For epoxy terminal seal, specify 'E' in seal box, for no seal, leave box empty. Q contact material and no seal are supplied if no options are specified.

UL/CSA listed with all options when ordered with G or Q contact material.



GLAMOR CAPS

Add distinctive style at low cost. Specify part no. for desired color.

FITS 03 ACTUATOR

TYPICAL INSTALLATION







Note: Full actuator engagement approx .235 (5, 97).

Part No.	Color	Part No.	Color
12-100-01-01	White	12-100-01-06	Green
12-100-01-02	Black(STD.)	12-100-01-07	Blue
12-100-01-03	Red	12-100-01-08	Brown
12-100-01-04	Orange	12-100-01-09	Gray
12-100-01-05	Yellow		

FITS C1-C9 ACTUATOR







Caps avail. separately to fit C1-C9 actuators. Specify part no. for desired color. Will only fit C1-C9 actuators, avail. only on switches with S1-S9 mounting style.

Part No.	Color	Part No.	Color
12-111-01-00	White	12-111-06-00	Green
12-111-02-00	Black(Std.)	12-111-07-00	Blue
12-111-03-00	Red	12-111-08-00	Brown
12-111-04-00	Orange	12-111-09-00	Gray
12-111-05-00	Yellow		



SPECIFICATIONS

CONTACT RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts. INSULATION RESISTANCE: 109 ohms min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black. TOP PLATE: 6/6 nylon (UL 94V-2), black. ACTUATOR: 6/6 nylon (UL94V-2), black std. (00, 13 actuators, natural std.)

CONTACTS: Copper, silver plated (Q cont. mat'l.).

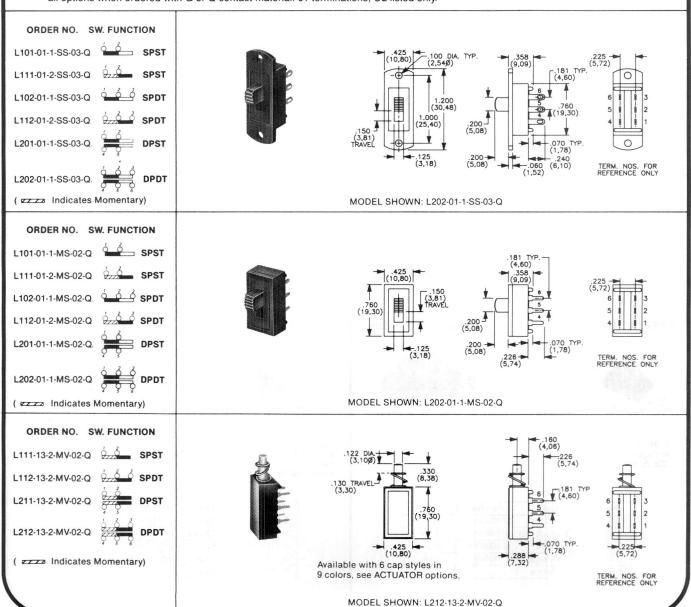
TERMINALS: Copper, silver plated (Q cont. mat'l.).

CONTACT SPRING: Music wire or stainless steel.

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

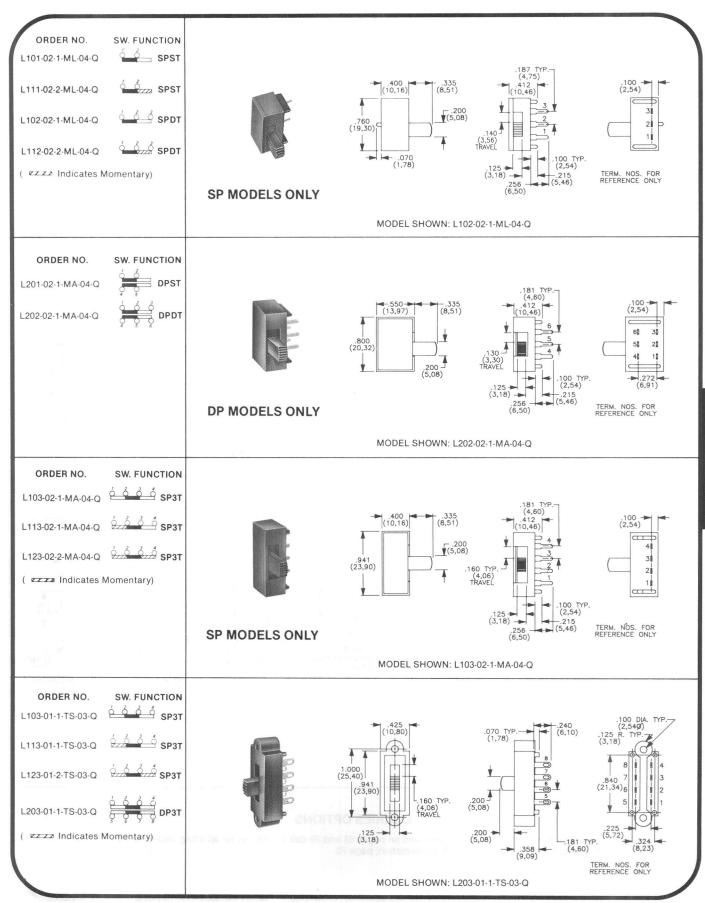
U.S. Pat. No. 4,258,237 INTRODUCTION

A selection of complete L SERIES MINIATURE SLIDE SWITCH order numbers is shown below thru page 70. To order alternate configuration, see available options on pages 70 thru 73. Complete HOW TO ORDER information is on page 73. UL/CSA listed with all options when ordered with G or Q contact material. 01 terminations, UL listed only.

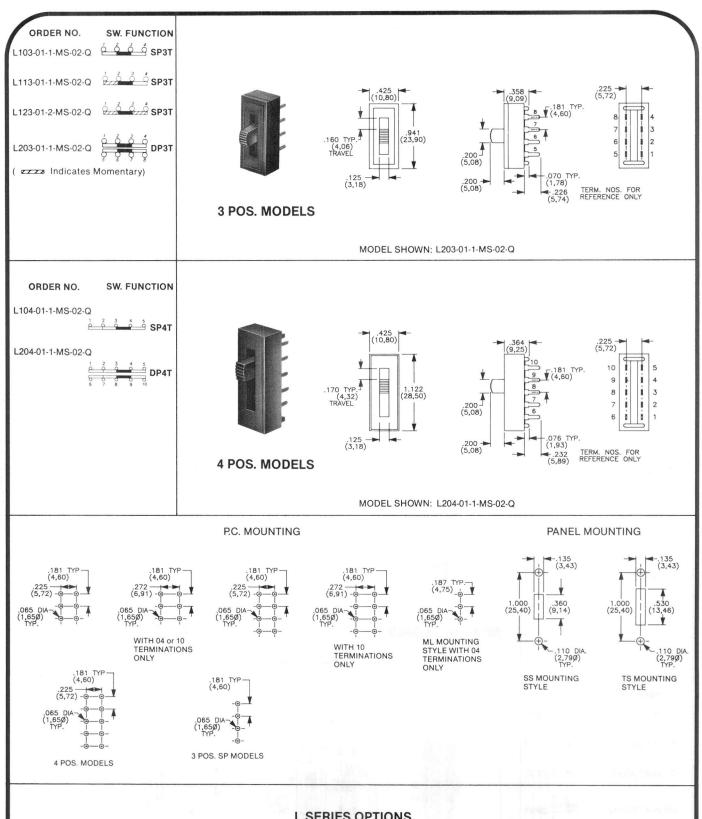




L Series







L SERIES OPTIONS

Switches different from those shown above and on pages 68 and 69 can be ordered by selecting desired options which begin on page 71. See HOW TO ORDER information, page 73.



MODELS

Mo	dal	No	214

L101 L111 L102 L112 L103 Sw. Func. SPST SPST-Momentary SPDT SPDT-Momentary SP3T-Momentary to one end

Model No. L123 L104 L201 L202 L211 L212 1.203 L204

Sw. Func. SP3T-Momentary to both ends

SP4T DPST

DPST-Momentary (avail. MV mtg. style only) DPDT-Momentary (avail. MV mtg. style only) DP3T

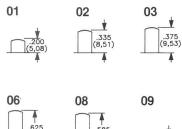
DP4T

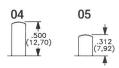
See SW. FUNCTION schematics for terminal nos.

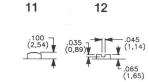
ACTUATORS

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ACTUATOR OPTIONS FOR MA, ML, MS, SS, TS MOUNTING STYLES:







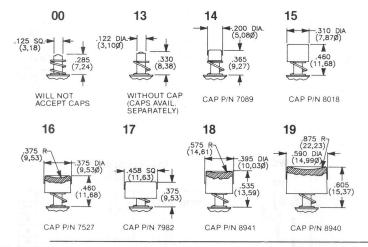
AVAILABLE OPTION COMBINATIONS

MTG.	ACTUATORS														
STYLES	00	01	02	03	04	05	06	08	09	11	12	13-19			
MA															
ML			•			•				•					
MS		•	•	•	•	•	•			•					
MV												•			
SS					•	•			•	•					
TS			•	•											

• INDICATES AVAILABLE OPTION COMBINATIONS

Note: Black std., other colors avail., consult factory.

ACTUATOR OPTIONS FOR MV MOUNTING STYLE:



CAPS

Caps supplied installed std. To order, write desired cap color in word form after order no. Ex.: L211-17-2-MV-02-Q with blue cap. If no color is specified, black will be supplied. Caps may also be ordered separately and user installed by specifying the 4 digit P/N and color. For switches without caps, order 13 actuator option. Cap finish: gloss (exc. square cap P/N 7982, cap finish: matte).

	CAP CO	LORS	
1	White	6	Green
2	Black(Std.)	7	Blue
3	Red	8	Brown
4	Orange	9	Gray
5	Yellow		

SPLASH CAPS

New protective splash caps for P.C. mounted L-SERIES slide switches provide splash protection during soldering and cleaning processes. They are available separately and are reusable. To order specify correct P/N. See chart.







SPLASH CAP P/N	FITS SWITCH MODELS
12-010-02	All LXX1, LXX2 models with MS mtg. style.
12-010-03	All LX11, LX12 models with MV mtg. style.
12-010-04	All L1X3 models with MA mtg. style.



DETENT

With Detent

Std. with L101, L102, L103, L104, L113, L201, L202, L203, L204 models.

Without Detent Std. with L111, L112, L123, L211, L212 models.

 MOUNTING STYLES

MA

P.C. mount, side actuated SP3T, DP only.

P.C. mount, side actuated SPST, SPDT only.

MS

P.C. mount, top actuated.

ΜV

P.C. mount, end actuated, momentary only.

SS Panel mount with mounting ears, top actuated.

TS Panel mount with integral mounting ears, accepts self tapping screws, top actuated.

AVAILABLE OPTION COMBINATIONS

MTG.							MOD	ELS								٦	ΓER	IIM	TAV	ION	IS						Α	СТ	JAT	OR	S			
STYLES	L101	L111	L102	L112	L103	L113	L123	L201	L202	L211	L212	L203	L104	L204	01	02	03	04	06	10	12	WC	00	01	02	03	04	05	06	08	09	11	12	13-19
MA					•	•	•																		•									
ML	•	•	•	•																					•		•	•	•			•	•	
MS				•	•	•	•		•						•					•		•							•	•		•	•	
MV				•						•	•				•	•	•			•	•	•	•											•
SS								•	•							•				•		•							•				•	
TS					•	•	•					•			•	•	•		•	•	•	•		•	•				•	•	•	•	•	

INDICATES AVAILABLE OPTION COMBINATION

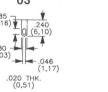
TERMINATIONS



01 terminations, UL listed only.



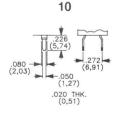


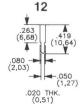




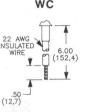
Avail. with MA, ML mounting styles only.







Recommended with DP models only.



Black wire std., other colors and lengths avail., consult factory.

AVAILABLE OPTION COMBINATIONS

TERMINIATIONIC	MOUNTING STYLES													
TERMINATIONS	MA	ML	MS	MV	SS	TS								
01			•	•	•	•								
02			•	•	•	•								
03					•									
04	•	•			0	184								
06			•		•	•								
10				•	•	•								
12														
WC	115			•		•								

INDICATES AVAILABLE OPTION COMBINATION



CONTACT MATERIALS

CONTACT / TERMINAL MATERIALS

- CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- CONTACTS & TERMINALS: Copper, silver plated. (Std. with all termination options.) RATING: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).
- CONTACTS AND TERMINALS: Copper, with gold plate over nickel plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3. 01 terminations UL listed, all other terminations UL/CSA listed.

 -

SEALING

(None) No seal

Std. with all termination options.



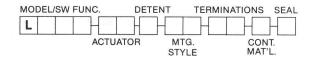
HOW TO ORDER

Complete order numbers for selected L-SERIES models are provided on pages 68 thru 70. To order alternate configuration, select desired model no., actuator, detent, mounting style, termination and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. For 14 thru 19 actuator options, write cap color in word form after order number. (Example: L212-15-2-MV-02-GA- with red cap). If no color is specified, black will be supplied.

For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. Q contact material is supplied if no option is

UL/CSA listed with all options when ordered with G or Q contact material.

Note: 01 terminations, UL listed only.



Power Rocker Switches



SPECIFICATIONS

CONTACT RATING:

C121, C122, C221, C222 models: 15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC (UL/CSA).

(VDE & other international listings also avail. See RATINGS section).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min.
INSULATION RESISTANCE: 10⁹ ohms min.
DIELECTRIC STRENGTH: 2,500 V RMS min.
@ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black std. ACTUATOR: 6/6 nylon (UL 94V-2), black std. MOVABLE CONTACTS: Copper, silver plated. STATIONARY CONTACTS & TERMINALS:

C221, C222 models with A rating: Copper.
C121, C122 models with A rating and all
models with F rating: Copper, silver plated.
CONTACT SPRING: Music wire or stainless steel.

Patent Pending

NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory

INTRODUCTION

A selection of complete C SERIES POWER ROCKER SWITCH order numbers is shown below and on page 75. To order alternate configuration, see available options on pages 76 and 77. Complete HOW TO ORDER information is on page 77. All models UL/CSA listed with all options. Some models also VDE, SEV and SEMKO listed. See HOW TO ORDER, page 77.

ORDER NO. SW. FUNCTION
(15 AMP MODELS · UL/CSA*)

C121-J1-2-S2-05-QA 🗘 💆 SPDT

C122-J1-2-S2-05-QA SPST

*See RATINGS section for complete contact ratings and agency listings.

Contacts make on side opposite actuator thrown.

ORDER NO. SW. FUNCTION
(15 AMP MODELS-UL/CSA/VDE
& other listings*)

C121-J1-2-S2-05-QF

SPDT

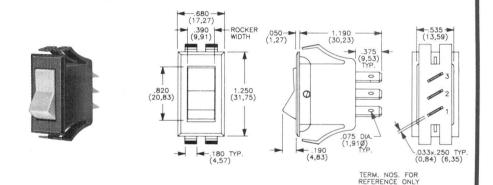
C122-J1-2-S2-05-P-QF

SPST

*See RATINGS section for complete contact ratings and agency listings.

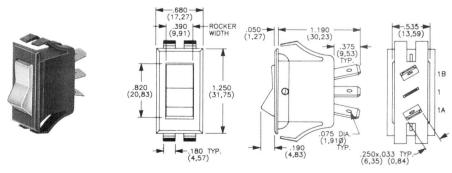
Contacts make on side opposite actuator thrown.

Note: 'P' ACTUATOR MARKINGS std. on C122 models with 'F' RATING and international listings.



UL/CSA LISTED

MODEL SHOWN: C121-J1-2-S2-05-QA



UL/CSA/VDE/SEV/SEMKO LISTED

TERM. NOS. MARKED ON HOUSING

MODEL SHOWN: C121-J1-2-S2-05-QF





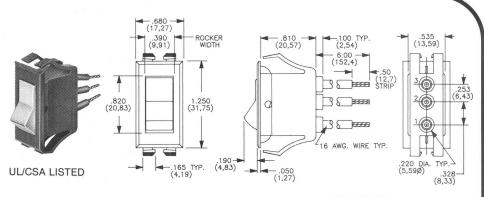


(15 AMP MODELS-UL/CSA*)

C121-J1-2-S2-WC-QA 4 4 5 SPDT

C122-J1-2-S2-WC-QA - SPST

*See RATINGS section for complete contact ratings and agency listings. Contacts make on side opposite actuator thrown



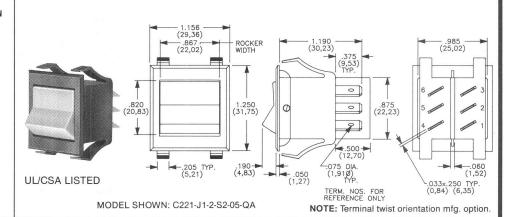
MODEL SHOWN: C121-J1-2-S2-WC-QA

TERM. NOS. FOR REFERENCE ONLY

SW. FUNCTION ORDER NO. (15 AMP MODELS-UL/CSA*)



*See RATINGS section for complete contact ratings and agency listings. Contacts make on side opposite actuator thrown.



ORDER NO. SW. FUNCTION (15 AMP MODELS-UL/CSA/VDE & other listings*)

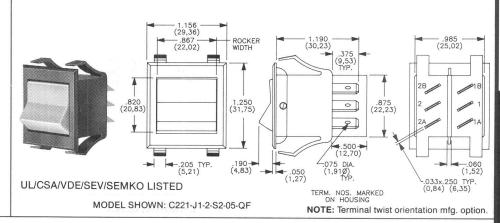
C221-J1-2-S2-05-QF



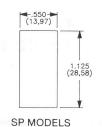
C222-J1-2-S2-05-P-QF DPST

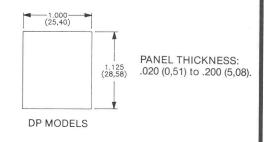
*See RATINGS section for complete contact ratings and agency listings. Contacts make on side opposite actuator thrown.

Note: 'P' ACTUATOR MARKINGS std. on C222 models with 'F' RATING and international listings



PANEL MOUNTING





C SERIES OPTIONS

Switches different from those shown on pages 74 and 75 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 77.

MODELS

(15 AMP MODELS*)

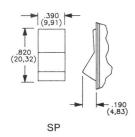
Model No. Sw. Func. C121 SPDT C122 SPST C221 DPDT C222 **DPST**

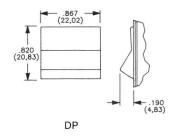
*See CONTACT MATERIALS/RATINGS section for complete switch ratings and available agency listings and approvals.

ACTUATORS / COLORS

J1

C





ACTUATOR COLORS

Select actuator color from chart. Place option code in appropriate box of ordering format. Finish: gloss standard. Matte actuator finish available on DP models, see FINISH option section, page 77.

OPTION CODE	ACTUATOR COLOR
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

MOUNTING STYLE/HOUSING COLORS

S Snap-In Mounting.

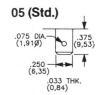
HOUSING COLORS

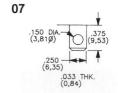
Select housing color from chart. Place option code in appropriate box of ordering format. Frame finish on housing: gloss standard. Matte finish available on DP models, see FINISH option section, page 77.

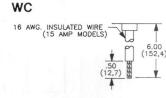
OPTION CODE	HOUSING COLOR
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

CITHUTHUSTH

TERMINATIONS







Available with A contact rating (UL/ CSA listing) only.

Available with A contact rating (UL/ CSA listing) only, SP models only. Black wire std., other colors and lengths avail., consult factory.





ACTUATOR MARKINGS П L P (NONE-STD.) D Н K M ппо 0 ON ON ZO OFF MARKING COLOR: RED D, H, K, L, M, P, MARKING OPTIONS: Marking color white std. for all actuator colors except white and yellow actuators. Marking color black std. for white and yellow actuators. N MARKING OPTION: Marking color red std. Other marking colors available, consult factory. P actuator marking std. on C122 and C222 models with international listings (QF CONTACT MATERIAL/RATING). Consult factory for other available markings. CONTACT MATERIALS/RATINGS RATINGS CONTACT/TERMINAL MATERIALS **Q** MOVABLE CONTACTS: Copper, silver plated. A 15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC STATIONARY CONTACTS & TERMINALS: (UL/CSA). C221, C222 models with A rating: Copper. F 15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC C121, C122 models with A rating and all (UL/CSA/VDE/SEV/SEMKO). models with F rating: Copper, silver plated. Note: 'F' rating available with 05 terminations only. **FINISH** (NONE) Gloss finish actuator and housing. Std. on all models. Must be ordered with all SP models. Matte finish actuator and housing. Avail. on DP models only. M

HOW TO ORDER

Complete order numbers for selected C-SERIES models are provided on pages 74 and 75. To order alternate configuration, select desired model no., actuator, actuator color, housing color, termination, actuator marking, contact material/rating and finish options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: C1122+J1+3+S4+WC+-+QA+-).

Black housing and black actuator, gloss finish and 05 terminations are supplied if no options are specified. Matte finish available only on DP actuators and/or housings. Unmarked actuators standard with all models except C122 and C222 models with international approvals

Six inch black 16 ga. wire leads with 0.5 in. partial strip standard with WC wire lead terminations. Alternate colors, lengths, wire gages and connectors available, consult factory.

UL/CSA listed with all options when ordered with QA contact material/rating.

UL/CSA/VDE/SEV/SEMKO listed when ordered with QF contact material/rating and 05 terminations.

Note:

Custom markings and legends available, consult factory.



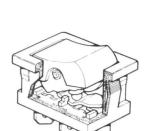




D Series



Miniature Power Rocker Switches



SPECIFICATIONS

CONTACT RATING:

D1XX, D2XX Models:

4 AMPS @ 125 V AC, 2 AMPS @ 250 V AC (UL/CSA)

4 (2) AMPS @ 125 V AC, 2 (1) AMPS @ 250 V AC, T85 (VDE).

D5XX, D6XX Models:

10 AMPS @ 125 V AC, 5 AMPS @ 250 V AC (UL/CSA)

10 (6) AMPS @ 125 V AC, 5 (3) AMPS @ 250 V AC, T85 (VDE).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL94V-2), black std. ACTUATOR: 6/6 nylon (UL94V-2), black std. MOVABLE CONTACTS:

D1XX and D2XX Models: Copper, silver plated.

D5XX and D6XX Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

A selection of complete D SERIES MINIATURE POWER ROCKER SWITCH order numbers is shown below and on page 79. To order alternate configuration, see available options on pages 80 and 81. Complete HOW TO ORDER information is on page 81. UL/CSA listed with all options. Some models also VDE listed, see HOW TO ORDER, page 81.

ORDER NO. SW. FUNCTION (4 AMP MODELS-UL/CSA*) D101-J1-2-S2-05-QA D102-J1-2-S2-05-QA SPST

(10 AMP MODELS-UL/CSA*) D501-J1-2-S2-05-QA SPDT

D502-J1-2-S2-05-QA

(4 AMP MODELS-UL/CSA/VDE*)

D101-J1-2-S2-05-QF D102-J1-2-S2-05-P-QF

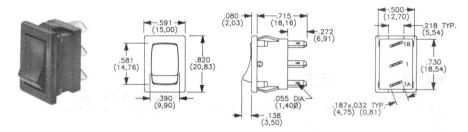
(10 AMP MODELS-UL/CSA/VDE*)

D501-J1-2-S2-05-QF D502-J1-2-S2-05-P-QF

See CONTACT MATERIALS section for complete contact ratings and agency listings

Contacts make on side opposite actuator thrown.

Note: 'P' ACTUATOR MARKINGS std. on DX02 models with 'F' RATING and international listings



TERM. NOS. FOR REFERENCE ONLY

SP MODELS **UL/CSA LISTED AND UL/CSA/VDE LISTED**

MODEL SHOWN: D101-J1-2-S2-05-QA



-.874 - (22,20)

TERM. NOS. FOR REFERENCE ONLY



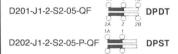




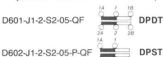
(10 AMP MODELS-UL/CSA*)



(4 AMP MODELS-UL/CSA/VDE*)



(10 AMP MODELS-UL/CSA/VDE*)



DP MODELS UL/CSA LISTED AND

MODEL SHOWN: D201-J1-2-S2-05-QA

.820 (20,83)

775 -(19,69)

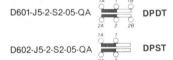
(18,16)

UL/CSA/VDE LISTED

ORDER NO. SW. FUNCTION (4 AMP MODELS-UL/CSA*)



(10 AMP MODELS-UL/CSA*)



(4 AMP MODELS-UL/CSA/VDE*)

D201-J5-2-S2-05-QF	O 2A	0	1B 9 0 2B	DPDT
D202-J5-2-S2-05-P-QF	1A O 2A	0	3	DPST

(10 AMP MODELS-UL/CSA/VDE*)



*See CONTACT MATERIALS section for complete contact ratings and agency listings.

Contacts make on side opposite

Note: 'P' ACTUATOR MARKINGS std. on DX02 models with 'F' RATING and international listings.

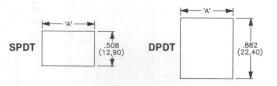
-.874 - (22,20)(18,16) 155 TYP.-(3,94) -.939 -(23,85) ←.588 → (14,94) .187x.032 TYP (4,75) (0,81)

TERM. NOS. FOR REFERENCE ONLY

DP MODELS UL/CSA LISTED AND UL/CSA/VDE LISTED

MODEL SHOWN: D201-J5-2-S2-05-QA

PANEL MOUNTING



PANEL THK.	DIM 'A'
.030049	.756
(0,75) (1,25)	(19,20)
.049079	.764
(1,25) (2,00)	(19,40)
.079118	.780
(2,00) (3,00)	(19,80)





Miniature Power Rocker Switches

D SERIES OPTIONS

Switches different from those shown on pages 78 and 79 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 81.

D **MODELS**

(4 AMP MODELS*)

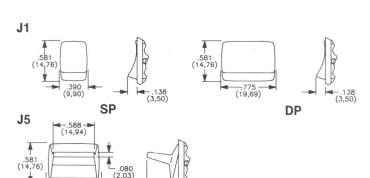
(10 AMP MODELS*)

Model No.	Sw. Func.	Model No.	Sw. Func.
D101	SPDT	D501	SPDT
D102	SPST	D502	SPST
D201	DPDT	D601	DPDT
D202	DPST	D602	DPST

^{*} See CONTACT MATERIALS section for complete contact ratings and agency listings.

HSI HOISH HQI

ACTUATORS / ACTUATOR COLORS



ACTUATOR COLORS

Select actuator color from chart. Place option code in appropriate box of ordering format. Actuator finish: matte.

OPTION CODE	ACTUATOR COLOR
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

-775 -(19,69)

DP ONLY

MOUNTING STYLE / HOUSING COLORS

S Snap-In Mounting

HOUSING COLORS Select housing color from chart. Place option code in appropriate box of ordering format. Frame finish on housing: matte.

OPTION CODE	HOUSING COLOR
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow
6	Green
. 7	Blue
8	Brown
9	Gray





Miniature Power Rocker Switches

TERMINATIONS

05

ACTUATOR MARKINGS

SP shown, DP also available.

(NONE)



D ON OFF





Std. on DX02 models with QF rating and VDE listing.

Note orientation of actuator markings and terminals.

Std. on all models except DX02 models with QF rating.

D, P MARKING OPTIONS: Marking color white std. for all actuator colors except white and yellow actuators. Marking color black std. for white and vellow actuators.

N MARKING OPTION: Marking color red std. Other marking colors available, consult factory.

CONTACT MATERIALS / RATINGS

CONTACT / TERMINAL MATERIALS

MOVABLE CONTACTS:

D1XX and D2XX MODELS: Copper, silver plated. D5XX and D6XX MODELS: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper, silver plated.

RATINGS

- D1XX, D2XX MODELS: 4 AMPS @ 125 V AC; 2 AMPS @ 250 V AC (UL/CSA). D5XX, D6XX MODELS: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL/CSA).
- D1XX, D2XX MODELS: 4 AMPS @ 125 V AC, 2 AMPS @ 250 V AC. (UL/CSA). 4 (2) AMPS @ 125 V AC, 2 (1) AMPS @ 250 V AC, T85 (VDE). D5XX. D6XX MODELS: 10 AMPS @ 125 V AC, 5 AMPS @ 250 V AC (UL/CSA). 10 (6) AMPS @ 125 V AC, 5 (3) AMPS @ 250 V AC, T85 (VDE).

HOW TO ORDER

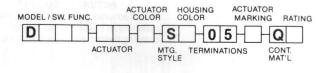
Complete order numbers for selected D-SERIES models are provided on pages 78 and 79. To order alternate configuration, select desired model no., actuator, actuator color, mounting style, housing color, termination, actuator marking and contact material/rating options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled (Example: D501-J1-3-S1-05-QF).

Black housing, black J1 actuator and no actuator markings are supplied if no options are specified. DX02 models with QF contact material / rating and VDE listing have P actuator marking std.

UL/CSA listed with all options when ordered with QA contact material / rating. UL/CSA/VDE listed with all options when ordered with QF contact material / rating.

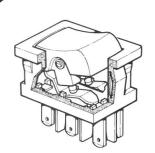
Note:

Custom markings and legends available, consult factory.





Miniature DP Power Rocker Switches



SPECIFICATIONS

CONTACT RATING:

DM2X Models: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC. (UL/CSA).
DM6X Models: 10 AMPS @ 125 V AC; 5 AMPS

@ 250 V AC. (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black std. ACTUATOR: 6/6 nylon (UL 94V-2), black std. MOVABLE CONTACTS:

DM2X Models: Copper, silver plated. DM6X Models: Coin silver, silver plated. STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

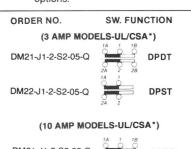
CONTACT SPRING: Music wire or stainless steel.

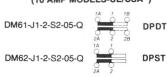
NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

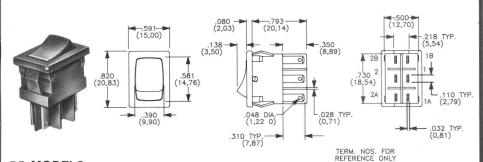
INTRODUCTION

A selection of complete DM SERIES MINIATURE DP POWER ROCKER SWITCH order numbers is shown below. To order alternate configuration, see available options which begin below. Complete HOW TO ORDER information is on page 83. UL/CSA listed with all options.





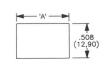
See CONTACT MATERIALS section for complete contact ratings and agency listings. Contacts make on side opposite actuator thrown.



DP MODELS **UL/CSA LISTED**

MODEL SHOWN: DM21-J1-2-S2-05-Q

PANEL MOUNTING



PANEL THK.	DIM 'A'
.030049	.756
(0,75) (1,25)	(19,20)
.049079	.764
(1,25) (2,00)	(19,40)
.079118	.780
(2,00) (3,00)	(19,80)

DM SERIES OPTIONS

Switches different from those shown above can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 83.

ACTUATOR/ACTUATOR COLORS



†See CONTACT MATERIALS section for complete contact ratings and agency listings

DMIT-J 1 451 HOISH HQ



ACTUATOR COLORS Select actuator color from chart. Place option code in appropriate box of ordering format. Actuator finish: matte.

OPTION CODE	ACTUATOR COLOR
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray





Miniature DP Power Rocker Switches

DM CHIEN S HOEHCHOLD

MOUNTING STYLE / HOUSING COLORS

S Snap-In Mounting

HOUSING COLORS

Select housing color from chart. Place option code in appropriate box of ordering format. Frame finish on housing: matte.

OPTION CODE	HOUSING COLOR
1	White
2	Black (Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

TERMINATIONS

05



DM HJITH HSI HOISH

ACTUATOR MARKINGS

(NONE)



(STD.)

D

N



D. P MARKING OPTIONS: Marking color white std. for all actuator colors except white and yellow actuators. Marking color black std. for white and vellow actuators

N MARKING OPTION: Marking color red std. Other marking colors available, consult factory.

Note orientation of actuator markings and terminals.

CONTACT / TERMINAL MATERIALS

MOVABLE CONTACTS:

DM2X MODELS: Copper, silver plated. DM6X MODELS: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

DM2X MODELS: 3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC (UL/CSA). DM6X MODELS: 10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL/CSA).

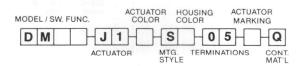
HOW TO ORDER

Complete order numbers for selected DM-SERIES models are provided on page 82. To order alternate configuration, select desired model no., actuator, actuator color, mounting style, housing color, termination, actuator marking and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: pme2-11-3-51-05-1-0).

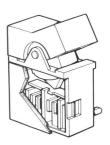
Black housing, black actuator and no actuator markings are supplied if no options are specified.

All models UL/CSA listed with all options.

Custom markings and legends available, consult factory.







SPECIFICATIONS

CONTACT RATING: 2 AMPS @ 125 V AC; 1 AMP @ 250 V AC (UL/CSA).

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 20 milliohms typ.

initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts. INSULATION RESISTANCE: 109 ohms min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level

OPERATING TEMPERATURE: - 30°C to 85°C.

MATERIALS

HOUSING & ACTUATOR SUPPORT: 6/6 nylon (UL 94V-2), black.

TOP PLATE: 6/6 nylon (UL 94V-2), black. ACTUATOR: 6/6 nylon (UL 94V-2), black std. PLUNGER: Glass filled polyester (UL 94V-0). CONTACTS: Copper, silver plated (Q cont. mat'l.). TERMINALS: Copper, silver plated (Q cont. mat'l.). SWITCH SUPPORT TERMINALS: Brass, tin plated (not electrically connected).

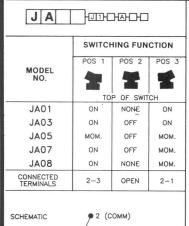
CONTACT SPRING: Music wire or stainless steel.

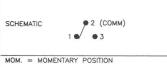
Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

INTRODUCTION

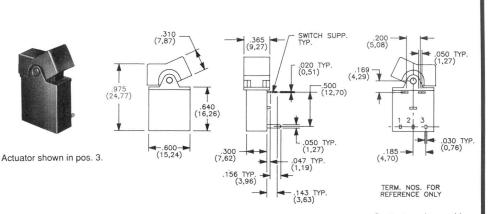
Available options for JA SERIES ROCKER SWITCHES are shown on pages 84 and 85. Make selections from the following option sections: Model, Actuator, Actuator Color, Termination, Contact/Terminal Material and (if desired) Epoxy Terminal Seal. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 85.

UL/CSA listed with all options when ordered with G or Q contact material.





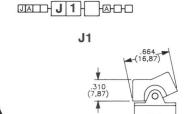
MODELS



MODEL SHOWN: JA01-J1-2-A-Q

Contacts make on side opposite actuator shown.

P.C. MOUNTING



ACTUATOR/ACTUATORS COLORS



ACTUATOR COLORS Select actuator color from chart. Place option code in appropriate box of ordering format.

OPTION CODE	ACTUATOR COLOR
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray







TERMINATIONS

Right angle P.C. terminations.

CONTACT / TERMINAL MATERIALS

- B CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- Q CONTACTS & TERMINALS: Copper, silver plated. (Std.) RATING: 2 AMPS @ 125 V AC; 1 AMP @ 250 V AC (UL/CSA).
- G CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 2 AMPS @ 125 V AC; 1 AMP @ 250 V AC (UL/CSA).

Note: 'G' contact material is equivalent to both 'B' and 'Q' contact materials. See 'CONTACT MATERIALS', p. 3.

JATTHJITH TAL

SEALING

(None)

No seal (Std.)

Std. with all termination options.

E

HOW TO ORDER

Complete the order number below by selecting the desired model no., actuator, actuator color, termination, contact/terminal material and (if desired) terminal sealing options from the preceding sections. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: JA03-J1-3-A-B-).

For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. 2 black actuator, Q contact/terminal material and no seal are supplied if no options are specified. J1 rocker actuator and A right angle PC terminations supplied standard.

UL/CSA listed with all options when ordered with G or Q contact/terminal material.

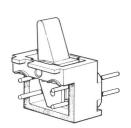
Custom actuator markings and legends available, consult factory.

ACTUATOR CONT. COLOR MAT'L. MODEL/SW FUNC. HAH | J | 1 | ACTUATOR TERMINATIONS SEAL





Miniature Lever Handle Switches



SPECIFICATIONS

CONTACT RATING: 0.25 AMPS @ 125 V AC or 28 V DC.

SWITCHING FUNCTION: SPDT ON-ON double break

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

MECHANICAL LIFE: 100,000 cycles min. CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 109 ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

MATERIALS

HOUSING: 6/6 nylon (UL 94V-2), black. ACTUATOR: 6/6 nylon (UL 94V-2), black std. PLUNGER: Acetal.

MOVABLE CONTACT: Brass, silver plated. STATIONARY CONTACTS & TERMINALS: Brass, silver plated.

TERMINAL SEAL: Epoxy.

NOTE

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

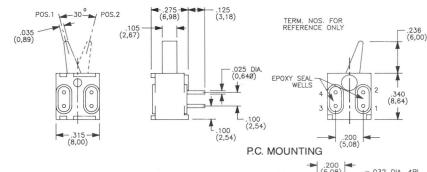
MODEL J T 0 1 JIZHZHAHQHE

MODEL NO. J T 01

SWITCHING FUNCTION: SPDT ON-ON double break

SCHEMATIC _ POS. 1 POS. 2

SPDT



.032 DIA. 4PL (0,819)

ACTUATOR UTION J 2 PARE

Lever Handle (Std.)

Note: Black actuator, option '2' std., for other colors, consult factory.

TERMINATIONS UTTOTHUZHZH A PQHE

MODEL SHOWN: JT01-J2-2-A-Q-E

A P.C. Terminations, right angle mounting.

UTTOTHUZHZHAH QHE

CONTACT MATERIAL

MOVABLE CONTACT: Brass, silver plated. STATIONARY CONTACTS & TERMINALS: Brass, silver plated. RATING: 0.25 AMPS @ 125 V AC or 28 V DC.

UTIO1HUZHZHAHQH E

SEALING

Epoxy terminal seal (Std.)

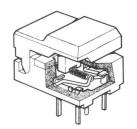
HOW TO ORDER

Complete order number for JT-SERIES model shown is provided below.

ACTUATOR CONT. MAT'L MODEL NO. COLOR J T 0 1 - J 2 - 2 - A - Q - E ACTUATOR TERMINATIONS SEAL



Mechanical Pushbutton Switches



SPECIFICATIONS

SWITCHING FUNCTION: SPDT Momentary.

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max.

ELECTRICAL LIFE: 1,000,000 actuations min. at full load.

CONTACT RESISTANCE: Below 50 milliohms typ. initial @ 2-4 V DC, 100mA

INSULATION RESISTANCE: 109 ohms min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

OPERATING TEMPERATURE: - 30°C to 65°C

OPERATING FORCE: 250 grams typ.

MATERIALS

CASE: Glass filled nylon.

CAP: Polycarbonate - ABS blend (UL 94V-0), matte finish, 9 colors available, black std.

CONTACTS & TERMINALS: Brass, with gold plate over nickel plate (B. cont. mat'l.)

TERMINAL SEAL: Epoxy.

L.E.D. SPECIFICATIONS. See page 89.

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

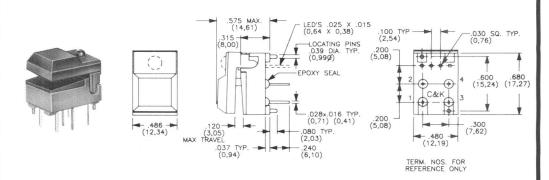
INTRODUCTION

Available options for MP SERIES MECHANICAL PUSHBUTTON SWITCHES are shown on pages 88 and 89. Make selections from the following option sections: Cap Style, Cap Color, L.E.D. Color(s) and Terminations. Each section begins with the ordering format, with the appropriate boxes enlarged. Complete HOW TO ORDER information is on page 89.

	SWITCHI	NG FUNC.
MODEL	POS 1	POS 2
NO.		
MP01	ON	мом.
CONNECTED TERMINALS	2,4-1	2,4-3
SCHEMATIC	₱ 2,4 {COM	M)
NC 1 0	• 3 NO	



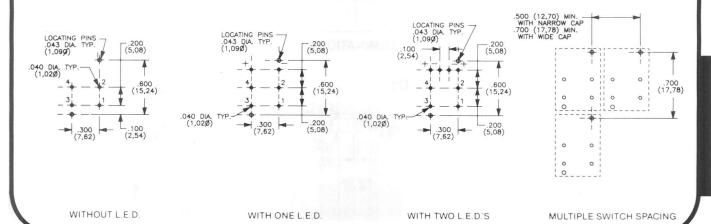
MODEL



Common Terminals Connected inside Switch

MOM. = MOMENTARY POSITION

MODEL SHOWN: MP01-R0-1-C-B-E MP01-R1-1-1-C-B-E (WITH PHANTOM L.E.D.)

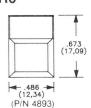


P.C. MOUNTING

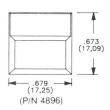
Mechanical Pushbutton Switches



R₀

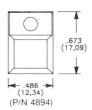


S₀

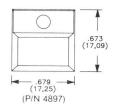


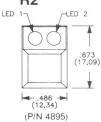
CAP STYLES

R1

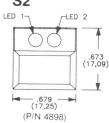


S1

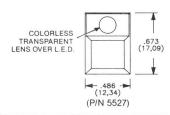




S₂



A1 ANTI-STATIC CAP



These cap styles are available in 9 colors, black std. (see chart). Caps snap in place and may be factory installed, installed by user or replaced in the field without special tools. Caps can be ordered separately by specifying the 4 digit P/N and color. Switches are also available without caps. See HOW TO ORDER on page 89. Cap finish: matte.

MPOITH HEHE

CAP COLORS

Select desired cap color from chart and place the option code in the appropriate box of the ordering format. If no color is specified, black will be supplied. Caps can be ordered separately by specifying the 4 digit P/N and color. Cap finish: matte.

OPTION	CAP
CODE	COLORS
1	White
2	Black(Std.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

MPOTH

- HBHE

L.E.D. COLORS

L.E.Ds are available in 3 colors, red std. (see chart). R2, S2 CAP STYLES: Be sure to specify both L.E.D. colors. L.E.D. colors may be different.

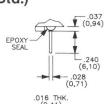
L.E.D.s can be ordered separately. See L.E.D. INSTALLATION and SPECIFICATIONS. page 89.

COLOR	OPTION CODE	
COLOR	L.E.D. 1	L.E.D. 2
Red (STD)	3	3
Yellow	5	5
Groon	6	6

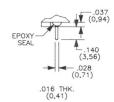
MPOTHER BHE!

TERMINATIONS

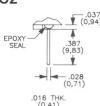
C (Std.)



C1



C2





Mechanical Pushbutton Switches

MPROTECTION BIE

CONTACT MATERIAL

MPOINTH E

SEALING

B (Std.)

CONTACTS & TERMINALS: Brass, with gold plate over nickel plate

RATING: 0.4 VA max. @ 20 V AC or DC max.

E (Std.)



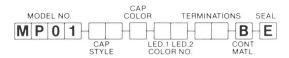
HOW TO ORDER

Complete the order number below by selecting the desired cap style, cap color no., L.E.D. color no(s), and termination options from the preceding sections. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: MP011+R1+7+5+C-+B+E).

C terminations are supplied if no options are specified. B contact material and E epoxy terminal seal supplied standard. If no L.E.D.'s are required, select R0 or S0 cap and leave L.E.D. ordering boxes empty.

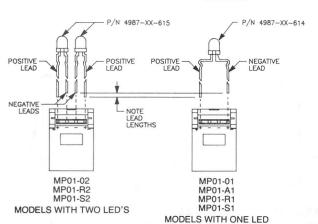
Switches are also available without caps. Place 00, 01, or 02 in CAP STYLE ordering boxes for switch with no L.E.D., one L.E.D., or two L.E.D.'s respectively. Indicate appropriate L.E.D. color code(s). (Example: MP01-01-3-C1-B-E).

L.E.D.'s and caps available separately, see page 88 and below.



L.E.D. INSTALLATION

Use figures below for correct field installation and orientation of L.E.D.'s



L.E.D. PART NUMBERS (Specify when ordering L.E.D.'s separately)

L E D 077/15		L.E.D. COLORS	S
L.E.D. STYLE	RED	YELLOW	GREEN
For models with one L.E.D. (01,A1,R1,S1 cap styles)	4987-03-614	4987-05-614	4987-06-614
For models with two L.E.D.'s (02,R2,S2 cap styles)	4987-03-615	4987-05-615	4987-06-615

L.E.D. SPECIFICATIONS

				1115.
		TYP.	MAX.	PEAK
	TYP.	FORWARD	FORWARD	EMISSION
COLOR	INTENSITY	VOLTAGE	CURRENT	WAVELENGTH
Green	5.0 mcd	2.1 V	25 mA	565 nm
arcon	5.0 mca	2.1 V	23 IIIA	363 1111
Red	2.0 mcd	2.1 V	20 mA	700 nm
Yellow	3.5 mcd	2.1 V	25 mA	585 nm

Pushbutton Switches

SPECIFICATIONS

CONTACT RATING: 0.25 AMPS @ 125 V AC or DC (UL).

ELECTRICAL LIFE: 10,000 actuations at full load. CONTACT RESISTANCE: Below 30 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10° ohms min. DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level

OPERATING TEMPERATURE: - 30°C to 85°C. CAP INSTALLATION FORCE: 10 lbs. max. permissible.

MATERIALS

HOUSING & BUSHING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: 6/6 nylon (UL 94V-2), natural. MOVABLE CONTACT: Phosphor bronze or beryllium copper, silver plated (Q cont. mat'l.). ATIONARY CONTACTS & TERMINALS:

Copper, silver plated (Q cont. mat'l.). RETURN SPRING: Music wire, phosphate coated. MOUNTING NUT: Brass, nickel plated.

Specifications and Materials listed above are general specifications for switches with standard options. See option sections for additional information. Specifications available for specific models, consult factory.

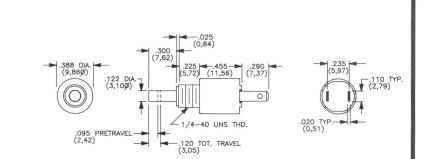
INTRODUCTION

A selection of complete KM SERIES PUSHBUTTON SWITCH order numbers is shown below. To order alternate configuration, see available options on pages 91 and 92. Complete HOW TO ORDER information is on page 92. UL listed with all options when ordered with G or Q contact material.

ORDER NO. KM11-01-RR-05-Q SW. FUNCTION SPST N.O. Momentary

SCHEMATIC

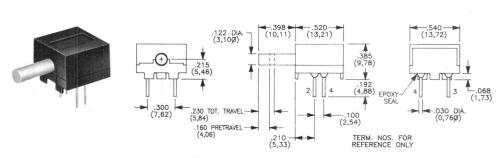




MODEL SHOWN: KM11-01-RR-05-O

ORDER NO. KM12-02-A-08-Q-E SW. FUNCTION SPDT Momentary

SCHEMATIC



MODEL SHOWN: KM12-02-A-08-Q-E

PANEL MOUNTING

KM11 models only

P.C. MOUNTING

KM11 models only



KM12 models only





KM SERIES OPTIONS

Switches different from those shown on page 90 can be ordered by selecting desired options which begin below. See HOW TO ORDER information, page 92.

KM معصصصا **MODELS**

KM11

SPST N.O. Momentary Avail. with RR mtg. style only.

KM12

SPDT Momentary Avail. with A mtg. style only.

KIMIT ممصصر **ACTUATORS**

01



Avail. with KM11 models only.



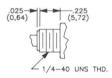
Avail. with KM12 models only.

KMIDHIDH مصصهر

MOUNTING STYLE

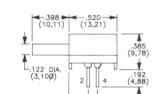
RR





05

Avail. with KM11 models only. Mounting nut included. Mounting nut P/N 5404-00-201

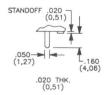


Avail. with KM12 models only.

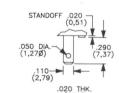
KMITHITH

TERMINATIONS

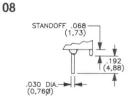
02



Avail. with KM11 models only.



Avail. with KM11 models only.



Avail. with KM12 models only.

Pushbutton Switches

CONTACT MATERIALS

- MOVABLE CONTACT: Phosphor bronze or beryllium copper, with gold plate over nickel plate STATIONARY CONTACTS & TERMINALS: Copper, with gold plate over nickel plate. RATING: 0.4 VA max. @ 20 V AC or DC max.
- MOVABLE CONTACT: Phosphor bronze or beryllium copper, silver plated. STATIONARY CONTACTS & TERMINALS: Copper, silver plated. RATING: 0.25 AMPS @ 125 V AC or DC (UL).
- MOVABLE CONTACT: Phosphor bronze or beryllium copper, with gold plate over nickel plate over silver plate. STATIONARY CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate. RATING: 0.4 VA max. @ 20 V AC or DC max. or 0.25 AMPS @ 125 V AC or DC (UL).

Note: G contact material can be used where either dry circuit* or power conditions are encountered. However, when the dry circuit rating is exceeded, the gold plating is removed from the contact interface and the switch cannot then be used in dry circuits.

*Dry circuit = conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

SEALING

(None)

Std. on KM11 models. Not avail, on KM12 models.

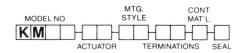
Std. on KM12 models

HOW TO ORDER

Complete order numbers for selected KM-SERIES models are provided on page 90. To order alternate configuration, select desired model no., actuator, mounting style, termination and contact material options. Place the option codes in the appropriate boxes of the ordering format. Some boxes may be unfilled. (Example: KM12-02-AI-08-B-EI).

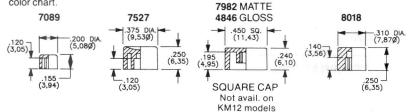
For epoxy terminal seal, specify 'E' in SEAL box, for no seal, leave box empty. E epoxy terminal seal standard on KM12 models. One mounting nut is supplied standard where applicable.

UL listed with all options when ordered with G or Q contact material.



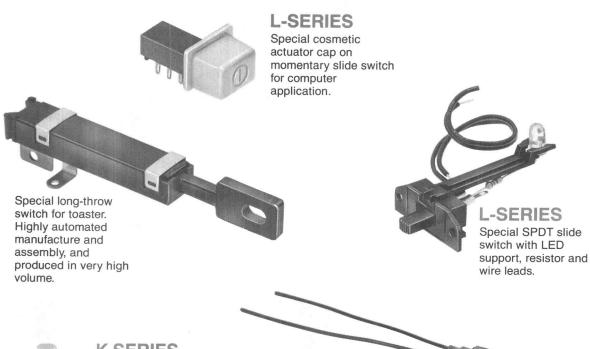
CAPS

Caps are available separately. To order, write part no., description, and color. All caps: finish, gloss, except where noted; material, nylon. See color chart.



	CAP CC	LORS	
1	White	6	Green
2	Black(Std.)	7	Blue
3	Red	8	Brown
4	Orange	9	Gray
5	Yellow		

SPECIAL SWITCHES AND ADDED FEATURES ARE NO PROBLEM! C&K is responsive to your special needs. We are able to produce unique designs quickly and at low cost, and every switch comes with famous C&K reliability, performance and delivery. Consult factory with your requirements today.





K-SERIES

A complete line of snap-in and panel mounted pushbutton switches with overtravel. 25 million cycle life—low level switching.



Special KM11 model momentary pushbutton switch with actuator cap and wire leads.



J-SERIES

A complete line of P.C. mounted rocker switches, with ratings from low level to 6 AMPS @ 125 V AC.



230

S-SERIES

Special S-SERIES snap-in slide switch with reversing bars on terminals and voltage markings.

SPLASH CAPS

Protective splash caps for P.C. mounted V, S and L Series slide switches provide splash protection during soldering and cleaning processes. They are available separately and are reusable. Consult factory.



Q-Series Lighted Pushbuttons With Snap Switches







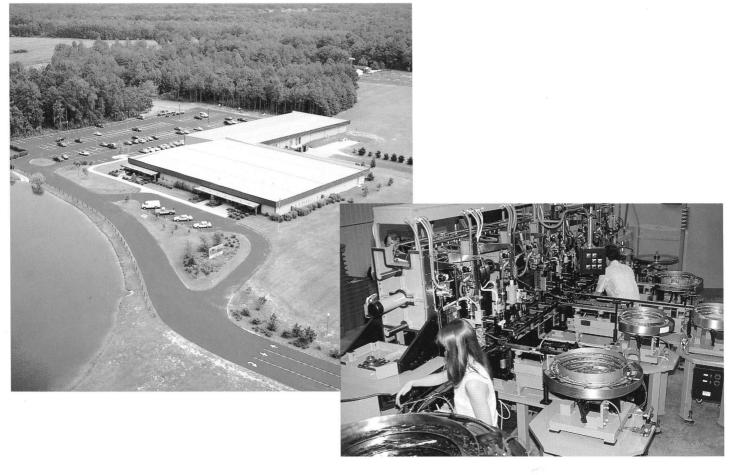




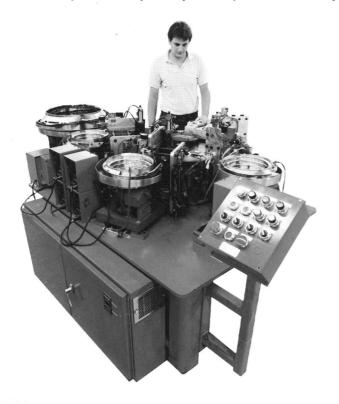


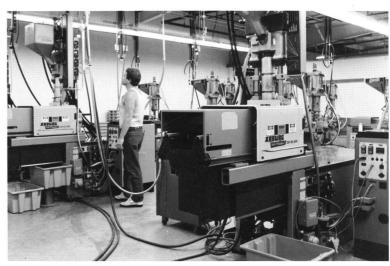


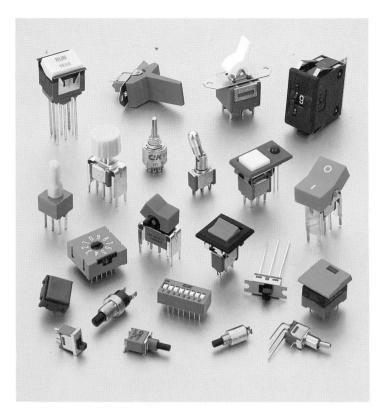
- SIX ROUND, RECTANGULAR AND SQUARE STYLES.
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- MODULAR CONSTRUCTION—EASY INSTALLATION.
- LONG-LIFE SNAP-ACTING SWITCH WITH HIGH RATING: 21 AMPS @ 250 V AC, 1 HP @ 125 V AC, 2 HP @ 250 V AC.
- .187 AND .250 QUICK CONNECT TERMINALS AVAILABLE.
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- CUSTOM MARKING AVAILABLE.
- LAMP—WEDGE BASE T 31/4 INCANDESCENT, WITH EITHER 6 V, 14 V or 28 V RATING.



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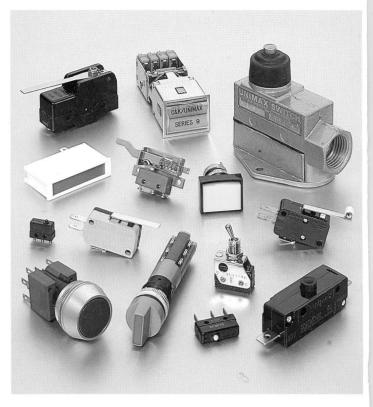






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Fax: (203) 265-5398

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C&K Components (HK) Ltd. 1F, Sino Industriai Plaza 9 Kai Cheung Road Kowloon Bay Kowloon, Hong Kong

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